# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 12, 1907.

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## CONSTRUCTION NEWS.

### PLANS AND SPECIFICATIONS ON FILE.

(* *denotes that this work is advertised in Engineering News.*)

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

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### RAILWAYS.

ALABAMA, FLORIDA & GULF.—A. D. Kelley, Pres., Slocomb, Ala., states that this company will build from Chipley, Fla., via Noma, Fla., and Slocomb and Enterprise, Ala., to Troy, Ala., but not to Crowley. The other officers are D. H. Morris, Vice-Pres.; C. E. Segrest, Treas., and W. W. Beall, Secy. Mr. Kelley is Secy. and Treas. of the Morris Lumber Co., of Slocomb. Noted last week.

BINGHAM CENTRAL.—Incorporated in Utah, with $500,000 capital, to build a line about 50 miles from Salt Lake City, Utah, south to Bingham and the tributary smelting and mining districts. The officers are: A. C. Ellis, Jr., Pres.; T. W. Sloan, Vice-Pres.; John Weir, Jr., Second Vice-Pres.; W. T. Gunter, Secy.; and W. F. Adams, Treas. R. G. Schulder is a director. F. A. Heinze is also interested.

BLADEN & NORTHERN.—William Moncure, Gen. Mgr. and Ch. Engr., Raleigh, N. C., reports that this road has been surveyed from Steadman, on the Atlantic Coast Line, to White Oak, N. C., 20 miles, and that contracts for construction will be awarded soon. John G. Shaw is Pres., Fayetteville, N. C. Noted on Aug. 29.

CANADIAN RIVER.—W. M. Porter, Ch. Engr., Woodward, Okla., states that this company proposes to build a railroad from Raton, N. Mex., to Oklahoma City, Okla., 450 miles, via Des Moines, N. Mex., and Hooker, Gate, May, Supply, Woodward, Mutual, Seiling, Watonga and Kingfisher, Okla., and that 60 miles have been graded and 20 miles of track laid. E. DEVORE, of Woodward, Okla., and the NEVADA CONSTRUCTION CO., of Raton, N. Mex., are the contractors. H. A. Ensign, Pres., 31 Nassau St., New York; George T. Peart is Gen. Mgr., Raton, N. Mex.; W. E. Hulse, Asst. Ch. Engr., Woodward.

CANADIAN PACIFIC.—A contract which will involve the expenditure of more than $1,000,000, the alteration of the grade of the main line of the Canadian Pacific at Field, B. C., driving 1½ miles of tunnels, about three-quarters of a mile on each side of the Kicking Horse River, and the construction of two bridges, has just been awarded to the MACDONNELL, GZOWSKI CO., of Vancouver, B. C., engineers and contractors. According to the Boston "Traveler," "It is estimated that the work cannot be completed in less than 18 months, and it will be started just as soon as men can be placed upon the ground. This is one of the largest pieces of reconstruction ever undertaken on the Canadian Pacific."

CHICAGO & NORTHWESTERN.—Contract is reported let to R. W. DAY, of Silver City, S. Dak., for ties, at $55,000, to be used in extending its line to Billings, Mont.

COPPER RIVER & NORTHWESTERN.—ERICKSON & BORLAND, of San Francisco, Cal., who have been awarded the contract for building a branch from Katalla, Alaska, to coal fields, 28 miles, are reported to have stated that they can give employment to 3,000 laborers at once. E. C. Hawkins is Ch. Engr., Katalla, Alaska.

CRANE RAILROAD.—Incorporated in Pennsylvania to build a railroad three miles long from a point on the Lehigh Valley in Whitehall Township, Lehigh County, to Catasauqua. Leonard Pickett, of Catasauqua, is Pres.

GREAT SOUTHWESTERN.—R. B. Moseley, Pres., Muskogee, Ind. T., states that this company proposes to build a railroad 1,400 miles long, from St. Louis, Mo., to El Paso, Tex., via Springfield, Mo., Salisaw and McAlester, Ind. T., and Vernon, Tex. The mileage by states is as follows: Missouri, 200 miles; Arkansas, 100 miles; Indian Territory, 250 miles; Texas, 850 miles. The line is being surveyed from Salisaw, Ind. T., to Vernon, Tex., 200 miles, and it is expected to begin the work of construction in the spring of 1908. A. L. Gibbs, Wagoner, Ind. T., is Ch. Engr. Headquarters of company are Oklahoma City, Okla. Noted on Aug. 15.

MARION & SOUTHERN.—M. C. Woods, Marion, S. C., states that this road is projected from Marion to Bennettsville, S. C., 30 miles, and that seven miles have been completed from Marion to the Atlantic Coast Line. J. L. Camp is Pres., Franklin, Va. Noted fully on Aug. 1.

MEMPHIS & GULF.—Chester H. Pond, Moorehead, Miss., Pres. of this company, which proposes to build a railroad from Memphis, Tenn., south through Mississippi to the Gulf of Mexico, has made the following statement, according to the Railway Age: "All steps toward the construction of this proposed road have been postponed until financial conditions improve. No work has been done in actual construction, but everything is ready to go on when the money market becomes normal. We have a large amount of local capital actually raised, but not sufficient to justify us in beginning work without the certainty of added capital from the outside. At present there is no encouragement for investments in railroad securities, and we therefore shall permit no expense or further effort until financial conditions improve."

NASHVILLE & NORTHEASTERN.—This company has been organized at Celina, Tenn., to build a railroad from Corbin, Ky., to Clarksville, Tenn., via Burnside, Monticello and Albany, Ky., and Lillydale, Celina, Spivy, Red Boiling Springs, Lafayette, Westmoreland, Bucklodge and Springfield, Tenn. Directors are Samuel Woodward, Cincinnati, Ohio; James Denton, Somerset, Ky.; J. H. Shearer, Monticello, Ky.; and S. B. Anderson and W. T. Moore, Celina, Tenn. Samuel Woodward is Pres.; James Denton, Secy.; and S. B. Anderson, Treas. Principal office, Celina, Tenn.

NEW IBERIA, ST. MARTINS & NORTHERN.—This company will build a railroad from New Iberia, La., along the east side of Bayou Teche to Port Barre, La., 42 miles. Surveys have been made and it is expected to begin construction soon. F. M. Welch is Pres., and L. A. Sumner is Ch. Engr., both of New Iberia, La.

OCILLA, PINEBLOOM & VALDOSTA.—B. B. Gray, Pres., Pinebloom, Ga., writes that this company, which was recently granted a charter in Georgia, proposes to build a railroad from Ocilla via Lax, Willacoochee, Pinebloom and Milltown to Valdosta, Ga., 66 miles. Twelve miles of the line are completed from Pinebloom to Lax.

ST. LOUIS, BARTLESVILLE & PACIFIC.—F. M. Overlees, Pres., Bartlesville, Ind. T., has stated that surveys have been made for this road from Joplin, Mo., to Pond Creek, Okla., 229 miles, via Miami and Bartlesville, Ind. T., and that it is expected to let contracts about Oct. 1. D. H. Rhodes is Ch. Engr., 213 West Fourth St., Joplin, Mo. Noted on Aug. 1.

STATESVILLE AIR LINE.—W. D. Turner, Pres., Statesville, N. C., states that this company proposes to build a railroad 65 miles long from Statesville to Mt. Airy via Turnersburg, Harmony, Yadkinville and Dobson, and that a preliminary survey is now being made. R. L. Greenlee, Statesville, is Ch. Engr. Noted on Aug. 8.

SAN DIEGO & ARIZONA.—Contract for grading from San Diego, Cal., to Yuma, Ariz., has been let to RENDELL, FRAZIER & CO., of San Diego. John D. Spreckels, of San Francisco, Pres., announces that just as fast as the remainder of the right-of-way can be cleared for action additional contracts will be let and the work rushed.

SOUTHERN UTAH.—Incorporated in Utah to build a railroad from a connection with the Rio Grande Western Ry., near Price, to the Independent coal mine, a distance of 20 miles. Capital stock, $100,000, of which $20,000 has been subscribed. Officers: Pres., A. A. Sweet; Vice-Pres., H. L. Thomas; Secy. and Treas., G. S. Payne. The officers with N. B. Browne and W. H. Sweet compose the board of directors. Headquarters, Salt Lake City.

TEXAS.—G. W. Kent, Gen. Mgr. of the Dona Dora Mining Co., El Paso, Tex., has stated that this company is contemplating the construction of a railroad from its mines on Organ Mountain to El Paso, Tex., a distance of 60 miles. A survey of the proposed road has already been made, and a definite announcement will soon be issued.

TACOMA EASTERN.—As soon as surveys between Midland, on the Tacoma Eastern R. R., and Yelm, Wash., on the Nisqually River, are completed, a branch line about 18 miles in length is to be built from the Tacoma Eastern to Yelm. This line is to be used by the Chicago, Milwaukee & St. Paul Ry. through a traffic arrangement with the Tacoma Eastern. It is to form a part of the branch to be built by the C., M. & St. P. to the great timber district of Grays Harbor and southwestern Washington. E. D. Fletcher is Ch. Engr. of the Tacoma Eastern, at Tacoma, Wash.

VALLEY RIVER.—L. E. Shull, Secy. and Gen. Mgr., Mill Creek, W. Va., writes that this company will build a railroad from Mill Creek to Clover Lick, W. Va., 44 miles. Surveys have been made and construction is to begin soon. W. A. Dromgold is Pres., York, Pa.; John Alden is Ch. Engr., Elkins, W. Va.; J. G. Hoffman, Jr., Vice-Pres. Headquarters, Mill Creek, W. Va.

## ELECTRIC RAILWAYS.

DUBOIS, PA.—The Du Bois Traction Co. will build an extension to Big Run, Pa. Austin Blakeslee is Pres. and Gen. Mgr.

POTTSVILLE, PA.—An extension may be built by the Pottsville Union Traction Co. from Minersville, Schuylkill County, to Hegins, Millersburg and Ashland. This company controls, by ownership of stock, the following: Schuylkill Elec. Ry. Co., Pottsville & Reading Ry. Co., Tamaqua & Pottsville Elec. R. R. Co., Schuylkill Haven & Orwigsburg St. Ry. Co., Coal Castle Elec. Ry. Co., Port Carbon & Middleport Electric Ry. Co., and the People's Ry. Co. of Pottsville. W. E. Harrington, Pottsville, is Pres.; Jos. B. Hoellman, Pottsville, is Gen. Mgr.

WASHINGTON, D. C.—William H. Benton, Ch. Engr. of the Washington, Westminster & Gettysburg R. R. Co., 1405 F St., N. W., Washington, D. C., advises us that right-of-way is mostly obtained for this company's proposed line from Washington to the Gettysburg battlefield, via Sandy Springs, Laytonsville and Westminster, Md., 80 miles. Surveys have been run. This railway will be a high-speed electric line. Company is ready to negotiate for capital. J. B. Colgrove, Washington, is Pres.

FAIRMONT, W. VA.—The Fairmont & Southern Railroad Co. has been chartered to build a line from Belington, via Grafton and Fairmont, W. Va., to Pittsburg, Pa. The incorporators are John T. Williams, of Baltimore, Md.; Benjamin F. Overholt, of Scottdale, Pa.; Ralph Overholt, of Pittsburg, Pa.; Charles F. Teter and Samuel A. Moore, of Philippi, W. Va.; Charles E. Conaway and Waltman H. Conaway, of Fairmont, W. Va.

QUITMAN, GA.—The Quitman, Valdosta & Thomasville Electric Railway & Power Company has been chartered to build an electric railway from Quitman to Valdosta and Thomasville, Ga., 45 miles. Grading has been commenced from Quitman, east. H. L. Young, Quitman, is interested.

BIRMINGHAM, ALA.—The Tidewater Development Co. has filed notice with the Probate Court of an increase of capital from $100,000 to $150,000 in acordance with a decision made by its directors on Aug. 22. This company has surveyed and obtained the right-of-way for an electric railway from Gadsden to Tuscaloosa via Birmingham, and through these cities, and proposes to build the road at an early date. At Tuscaloosa it proposes to have a barge line operating from there to Mobile for the transportation of freight. Senator Joseph F. Johnson is said to be interested.

JACKSON, MISS.—The Jackson Elec. Ry., Light & Power Co. will make local improvements in November. F. G. Proutt is Gen. Mgr. and Pur. Agt.

CINCINNATI, OHIO.—The Ohio Electric Railway Co., which was incorporated some months ago to take over the Schoepf Syndicate holdings, has filed a certificate in the office of the Secretary of State, increasing its capital stock from $100,000 to $25,000,000. W. Kesley Schoepf, of Cincinnati, is connected with the following lines: Columbus & Lake Michigan R. R. Co.; Indiana Union Traction Co.; Indianapolis & Eastern Ry. Co.; Indianapolis & Martinsville Rapid Transit Co.; Indianapolis & Coal Traction Co.; Indianapolis, Columbus & Eastern Traction Co.; Cincinnati Traction Co.; Cincinnati Northern Traction Co.; Ohio Traction Co., the Lima & Toledo Traction Co., etc.

TOLEDO, OHIO.—The Atlantic Construction Co., A. L. Ivish, Mgr., has been organized to build the Toledo, Wabash & St. Louis R. R., which is to be a steam and electric road, extending from Toledo to St. Louis, Mo. Charles H. Nauts has been elected Pres. of the railway company to succeed George G. Metzger, and E. L. Whitney has been chosen Treas. to succeed J. P. McAfee. C. D. Whitney, Toledo, Ohio, is Pres. of the construction company.

YOUNGSTOWN, OHIO.—The Youngstown & Ohio Interurban Elec. Co.'s proposed railway will be built by the Cleveland Construction Co., of Cleveland, it is announced. G. L. Wells is Ch. Engr., Leetonia, Ohio.

CAIRO, ILL.—D. H. Sawyer, Ch. Engr. of the Cairo Terminal Traction Co., Cairo, informs us that this company will build a line about twelve miles long, from Cairo to Mound City and Mounds, Ill. Surveys are made and right-of-way and capital are secured. Noted on July 18.

PARIS, ILL.—We are officially advised that surveys are party made by the Paris & Northern Traction Co. for its proposed line from Paris to Ridge Farm, Ill., and other points in Vermillion County. It will be about 50 miles long. F. L. Kidder is Pres., Paris; J. Doughty, Danville, Ill., is Engr. Right-of-way is being secured. Contracts for construction probably will not be let until next spring. Noted on Aug. 1.

MINNEAPOLIS, MINN.—O. C. St. Clair, Vice-Pres. of the proposed Minneapolis, Kansas City & Gulf Electric Railway, Minneapolis, Minn., states that the company has closed a contract for preliminary survey from Minneapolis to Des Moines, Iowa. It is expected to perfect arrangements for survey in Texas next month. C. B. Holes is Pres. and E. P. Bradshaw, Secy. and Treas. The line is projected from Minneapolis, via Kansas City, Guthrie, Waco and other points, to Galveston, Tex.

MANKATO, MINN.—W. L. Hixon, Pres. of the Mankato Electric Traction Co., writes us that contract for construction of the company's lines in Mankato has been awarded to the KNOX ENGINEERING CO., Fisher Bldg., Chicago. It will build about 5½ miles of city lines. Surveys are made and capital and right-of-way are obtained. Noted on Aug. 15.

CHANUTE, KAN.—The Southern Kansas Ry., Light & Power Co., of Chanute, will be reorganized, it is said, and construction commenced at Parsons, Kan., soon. The line is projected from Chanute to Iola, Parsons, Cherryvale, Independence and Coffeyville, Kan.; Joplin, Webb City and Carthage, Mo., about 200 miles. R. C. Rawlings, Chanute, is Pres., Gen. Mgr. and Pur. Agt.

CHEYENNE, WYO.—A franchise has been granted to W. J. Baker, Pres. of the Northern Colorado Power Co., Mercantile Bldg., Denver, Colo., to build an electric line from Cheyenne, Wyo., northwest five miles to Fort D. A. Russell. Work is to be begun by December.

HELENA, MONT.—The Helena & Butte Ry. Co. has made preliminary survey of its proposed line which will connect Helena and Butte. A. W. Verharen, Ch. Engr., Helena, advises us that nothing definite has yet been decided upon. The board of directors of the railway company is practically the same as the board of directors of the Helena Commercial Club. They are F. A. Heinze, John S. M. Neill, M. H. Gerry, Jr., F. S. P. Lindsay, G. L. Ramsey, J. T. Stanford, O. M. Lanstrum, N. B. Holter, W. T. Hull, H. G. Pickett and A. C. Johnson.

EXCELSIOR SPRINGS, MO.—The St. Joseph, Excelsior Springs & Lexington Ry. Co. has been incorporated at Jefferson City, with a capital stock of $200,000. The company proposes to build and operate a standard-gage electric railroad from Excelsior Springs to Hibbard, Mo., about eight miles distant. A bridge will be built across the Missouri River at Lexington. This will give an electric line from Kansas City to Lexington by way of the proposed Joplin & Pittsburg Ry., making direct connections at Excelsior Springs. The promoters are Dr. G. P. Lingenfetter, of Denver; C. D. Wade, of Excelsior Springs; Chas. Dyer, 1440 Franklin St., Denver; W. J. Bates, of Hibbard; A. M. Bates, S. S. McIntire, of Excelsior Springs; and D. C. Finley, of Kansas City.

ST. LOUIS, MO.—The St. Louis, Lakewood & Grant Park Ry. Co. will let contracts for a short extension next month. J. G. Hughes is Gen. Mgr. and Ch. Engr., 803 Laclede Bldg., St. Louis.

PINE BLUFF, ARK.—J. J. Fiske, Pres. of the Little Rock & Pine Bluff Traction Co., 501 Main St., Little Rock, Ark., states that the company will now receive bids for construction and material for its proposed line of electric railway between Little Rock and Pine Bluff, 50 miles. Noted fully on Aug. 15. Estimates from contractors are desired on grading in sections, bridging, tracklaying, overhead construction, erection of power-house; also prices on wire, steel-bridge materials, overhead construction materials, power-house equipment, cars, etc.

EVERETT, WASH.—J. T. McChesney, Pres. of the Everett Ry., Light & Water Co., states that this company will soon begin construction of an electric line between Snohomish and Fall City, a distance of 35 miles. Surveys have been practically completed for the new line. The road is 20 miles long, connecting Everett and Snohomish.

PORTLAND, ORE.—The Oregon Elec. Ry. Co. will build an extension from a point seven miles from Portland to Hillsboro. W. S. BARSTOW & CO., 50 Pine St., New York, are the engineers and builders.

MILNER, IDAHO.—We are officially informed that the Milner & North Side Elec. R. R. Co. has been incorporated in Idaho. Capital stock, $250,000. The line will run from Milner in a northwesterly direction through Jerome and Wendell to the Oregon Short Line at a point near Gooding, about 65 miles long. Surveys are made and capital and right-of-way are secured. A few small grading contracts have been let. The railroad will be built through a large irrigation project on north side of Snake River. A bonus per acre has been allowed by the State of Idaho to this company for building the line. D. C. MacWatters, Milner, is Pres.; P. S. A. Bickel, Milner, is Ch. Engr. The incorporators are Fentress Hill, D. C. MacWatters, Herbert R. Grant, Henry K. Belmont, and C. M. Hapgood, of Milner.

GODERICH, ONT.—The by-law to guarantee the bonds of the Ontario & West Shore Elec. Ry. Co. to the extent of $125,000 has been carried in the township of Ashfield.

## LIGHT AND POWER PLANTS.

*(* denotes that this work is advertised in Engineering News.)*

AUBURN, ME.—The ABERTHAW CONSTRUCTION CO. has been awarded contract for building concrete-steel dam, 40 ft. high and about 225 ft. long, for the Barker Mills, Auburn, Me., under license from the Ambursen Hydraulic Construction Co., of Boston. I. W. Jones, of Milton, N. H., is Engr. for the company.

BOSTON, MASS.—The following are reported to be the bids received by the Schoolhouse Commission at Boston for electric light system in extension to Mechanic Arts High School, Scotia St.: (a) old building; (b) new building: Lord Electric Co., 112 Water St., (a) $3,250, (b) $29,000; James Wilkinson & Co., 51 Franklin St., (a) $9,626, (b) $27,952; Edwin C. Lewis, 121 Federal St., (a) $10,167; (b) $25,215.

HARTFORD, CONN. — WESTINGHOUSE, CHURCH, KERR & CO., 10 Bridge St., New York, N. Y., have secured the contract for erecting a steel frame and brick addition to the boiler house extension of the generating station on the west side of the Connecticut River at Dutch Point.

NEW YORK, N. Y.—We are officially advised that McKesson & Robbins, 91 Fulton St., New York, have commissioned Dodge & Day, Engrs., Nicetown, Philadelphia, to make additions to their present power plant. The addition will include a new engine, generator and necessary changes to piping, wiring, etc.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Sept. 23, by C. B. J. Snyder, Supt. of School Bldgs., Bd. Education, for installing electric equipment in addition to and alterations in Public School No. 96, on East 81st and East 82d Sts., Boro. of Manhattan; for installing electric equipment in the addition to Public School No. 140, on the northerly side of 60th St., about 241 ft. west of Fourth Ave., Boro. of Brooklyn; for installing electric equipment in new Public School No. 28, on the corner of Centre St. and Garretson Ave., Richmond, Boro. of Richmond.

CHATHAM, N. Y.—FREDERICK D. RETALLICK & CO., have been awarded the contract for installing a complete electric lighting and power plant in Chatham, N. Y., and will begin work at once. Generators and motors will be installed and about 500 incandescent lights will be put in.

NEWARK, N. J.—E. M. Waldron & Co., Cabnet St., Newark, are stated to have secured the contract for the installing of the municipal lighting plant in the City Hall, bids for which were received Aug. 23, at $28,904. Noted Sept. 5.

LANCASTER, PA.—Bids are asked until Sept. 20 by Walter A. Miller, Clerk, Thaddeus Stevens Industrial School Comn., at the court-house, for erecting a power plant and two cottages for above school; also the mechanical work at the power plant; also sewers and tunnels from buildings and heating plant for all buildings; also same name and place for erecting a shop for the Stevens Orphans' Home.

HINTON, W. VA.—J. Turner Moorehead, of New York, N. Y., is reported to be planning the development of the New River falls water power property which he purchased recently.

WHITNEY, N. C.—The Whitney Co., it is stated, has completed water-power dam, 960 ft. long and 46 ft. high. Construction is progressing on accompanying canal to the Narrows of Yadkin River, 4½ miles distant. Construction of power-house at the Narrows and of pole line for transmission wire will begin soon. Company is surveying 600 acres of land to be cleared and platted for industrial city, and will plat 500 acres on the river as sites for manufacturing plants. John S. Henderson of Salisbury, N. C., is Mgr.; George I. Whitney, Frick Bldg., Pittsburg, Pa., is Pres.

CHARLESTON, S. C.—Bids are asked by the City until Nov. 15 for lighting streets and public buildings for terms of one, two or four years with electricity, gas or some other equivalent illuminating power. Estimated requirements, 500 arc lights;; gas to have 5-ft. burners. Ion Simons is City Electrician; R. M. Masters is Chn. Comn. on Lighting.

AMERICUS, GA.—The Americus Ry. & Light Co., recently organized with a capital of $250,000, is reported to have taken over the entire plant of the present light company and intends rebuilding same and equipping with new machinery.

NEW ORLEANS, LA.—Bids are asked at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Oct. 5, for installing a hot water heating plant at the Naval Station, New Orleans. William M. Smith is Acting Ch. of Bureau. Specifications are on file at the office of Engineering News, New York.

INDIANAPOLIS, IND.—The SANBORN-MARCH ELECTRIC CO., 115 North Illinois St., has secured the contract for installing an electric generating station in the Women's Prison at $6,279, and KIRKHOFF BROS. & CO., 11 North New Jersey St., secured the contract for the system of heating plant, bidding $11,726.

*SEYMOUR, IND.—Bids are asked until about Nov. 1, by the City Council, for furnishing gas for light and fuel and electricity for light and power. Fred. Everback is City Clerk.

MUSKEGON, MICH.—The Grand Rapids-Muskegon Power Co. will construct six dams across the Muskegon River, it is reported, giving 66,000 HP. A. J. Bemis, Grand Rapids, is Mgr.

JACKSONVILLE, ILL.—Bids are asked until Sept. 17 for one 200-KW. generator and engine, 200 arc lamps and four transformers and arc regulators. Charles W. Brown is Engr.

SHAWNEETOWN, ILL.—A. L. SWANSON, Evansville, Ind., has been awarded the contract for construction of a complete electric lighting plant.

DALLAS CITY, ILL.—J. H. COLE, of South Bend., Ind., has secured the contract for installing a system of water-works and constructing an electric lighting pplant.

DAWSON, MINN.—Contracts are stated to have been awarded as follows for the electric light plant and water-works: The amount of the contracts will aggregate $25,000: Tank pumps and pipe line to W. D. LOVELL & CO., Minneapolis; building to J. W. CARSON, Dawson, gas producer engine to the MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis; dynamos, switchboard and electrical appliances to the WESTINGHOUSE CO.

LITTLE ROCK, ARK.—Little Rock & Pine Bluff Traction Co. is preparing to build electric power plant for its 50-mile railway. J. J. Fiske is Pres., 501 Main St.

HANDLEY, TEX.—Northern Texas Traction Co., H. T. Edgar, Gen. Mgr., Fort Worth, Tex., will double capacity of power house, expending about $150,000.

BROWNSVILLE, TEX.—The City Council is reported to have accepted the bid of HENRY G. ULEN, representing the American Light & Water Co., for the construction of a water-works and electric light system, at $65,940.

BEAUMONT, TEX.—The Beaumont Gas Co. it is stated, has awarded contract to J. C. HERRENKIND to construct its new plant on Beaumont and Port Arthur public road, to replace the structure which was recently destroyed by fire. The building will be made of concrete building blocks and cost about $8,000.

CHICKASHA, IND. T.—It is reported that the Chickasha Water Power Co. is preparing to begin the construction of its proposed electric-light and power plant. It will build dam on Washita River, near Chickasha and transmit electricity to this city. Lawrence Martin, Treas., desires to correspond with dam contractors, manufacturers of electrical and water power machinery, poles, crossarms, etc.

FORT WORDEN (Port Townsend post-office), WASH.—The electric [illegible] at Fort Worden, Wash., will be installed by C. J. W. LITT[illegible] send, Wash., at $5,330.

SWISSHOME, ORE.—Geo. N. Miller, of Eugene, is interested in a [illegible] erected here, to cost about $[illegible].

FRESNO, CAL.—The Fr[illegible] & Power Co. recently incorp[illegible] 000 capital stock, will erect [illegible] plant in this city.

SAN FRANCISCO, CAL.—[illegible] making alterations and ad[illegible] plant at the Presidio of S[illegible] been divided between FRA[illegible] at $27,337 and S. W. MOSC[illegible] GLE at $8,930. Both bid[illegible] Francisco.

The contract for street [illegible] awarded to the SAN FRA[illegible] ELECTRIC CO., by the [illegible] $275,000, the amount of the b[illegible] tion. A condition was exa[illegible] spective of the number o[illegible] the city should not pay more [illegible] night for each, 15 cts. for e[illegible] light, 20.713 cts. for each [illegible] arc lamp or 13.81 cts. for [illegible] lamp lighted at midnight. [illegible] Gen. Mgr.

PHOENIX, ARIZ.—Contra[illegible] has been awarded to the CALIFORNI[illegible] ELECTRIC WORKS, O. T. Johnson Bldg., Los Angeles, Cal., for insulators to be [illegible] for the transmission line to be bui[illegible] connection with the Salt River irrigation project, Arizona. The contract calls for [illegible] insulators to be delivered f. o. b. cars [illegible] Liverpool, Ohio, for $12,062. The prices quoted will remain open for a total of 7,[illegible] insulators in case an order for the additional 3,000 is placed within three years. It is said that only one circuit will be completed at present.

MOOSEJAW, SASK.—The Council of Moosejaw is considering a plan to raise $80,000 for improvements and extensions to the municipal electric lighting plant. J. C. Jenner is Supt.

CALGARY, ALTA.—The Alberta Portland Cement Co. has applied to the City Council for concessions for development of electric power at Radnor.

## BRIDGES.

*(* denotes that this work is advertised in Engineering News.)*

GREENFIELD, MASS.—The contract for constructing highway bridge across Hinsdale Brook in Greenfield has been awarded to PETER BARBER, of Greenfield. The Clapp & Abercrombie Co., Greenfield, are Engrs.

SPRINGFIELD, MASS.—The contract for constructing superstructure only for steel bridge across the B. & M. R. R. on line of Abbe Ave., has been awarded to the BOSTON BRIDGE CO., Boston, for $14,900. Bids were also received Sept. 3 as follows: H. P. Converse & Co., 120 Milk St., Boston Mass., $19,376; R. F. Hawkins Iron Works, Springfield, Mass., $19,450; United Construction Co., Albany, N. Y., $17,832; New Jersey & West Virginia Bridge Co., Manasquan, N. J., $15,630; H. L. Norton, 632 Broad St., Boston, Mass., $15,449; Berlin Construction Co., Berlin, Conn., $16,582; Canton Bridge Co., Milwain Bldg., Albany, N. Y., $17,740; Penn Bridge Co., Beaver Falls, Pa., $16,945. Chas. M. Slocum is City Engr.

Bids were also received at the same time for constructing superstructure of Mill River Bridge as follows: Fred. T. Ley & Co., Springfield, $18,150; Berlin Bridge Co., Berlin, Conn., $15,750.

NASONVILLE, R. I.—The contract for constructing stone arch bridge has been let to the CUMBERLAND CONSTRUCTION CO., at about $5,000.

NEW YORK, N. Y.—The following bids were received Sept. 5 by the Department of Bridges, James W. Stevenson, Comr., for constructing the steel and masonry approach, Borough of Queens, for the Blackwell's Island bridge over East River: Richard E. Henningham, 1 Madison Ave., New York, $914,170; Williams Engineering Co., 13-21 Park Row, New York, $809,345; Maryland Steel Co., 71 Broadway, New York, $758,900; Buckley Realty & Construction Co., 156 Fifth Ave., $797,804.

ALBANY, N. Y.—See under Streets and Roads.

NEWARK, N. J.—The following bids were received by the Eleventh Ward Bridge Commission of the Board of Freeholders Aug. 27 for constructing bridge over Morris Canal at Central Ave.: Hedden Iron Construction Co., 22 Clinton St., Newark, $55,000; Hay Foundry & Iron Works, $49,985; and A. E. Sandford Co., $51,250. M. R. Sherrerd is City Engr.

TOWANDA, PA.—The following bids were received Aug. 15 by the County Commissioners for constructing James St. bridge over Susquehanna River between North Towanda and Wysox: Nelson Construction Co., $96,378; A. Buchanan, $111,500; Penn Bridge Co., Beaver Falls, Pa., $94,005; New Jersey Bridge Co., Manasquan, N. J., $93,400; Owego Bridge Co., Owego, N. Y., $96,400; E. Whalen, $92,000; Canton Bridge Co., Canton, Ohio, $91,150; York Bridge Co., York, Pa., $95,300.

CHESTER, PA.—The County Commissioners have let contract to ALONZO V. BAKER, of Media, for constructing bridge at Tribit Ave.

WILLIAMSPORT, MD.—Plans and specifications are being prepared for the Washington & Berkeley Bridge Co., V. Cushwa, Pres., for constructing reinforced concrete bridge across Potomac River at Williamsport. Estimated cost, $80,000. Mason D. Pratt, Harrisburg, Pa., is Engr.

BALTIMORE, MD.—Plans have been prepared for constructing concrete bridge across Gwynn's Falls at Edmondson Ave. Estimated cost, $200,000. B. T. Fendall is City Engr.

EAST BEND, N. C.—The Yadkin River Bridge Co. has been incorporated with $15,000 capital stock by T. A. Steetman, W. A. Martin and J. Edwin. The company will erect and operate a toll bridge over Yadkin River.

DECATUR, ALA.—The Southern Ry. Co. contemplates constructing a bridge on old piers across Tennessee River near Decatur. D. W. Lum, Washington, D. C., is Ch. Engr.

WETUMPKA, ALA.—The CHATTANOOGA BRIDGE CO., Chattanooga, Tenn., has been awarded contract for erection of bridge across Coosa River.

MEMPHIS, TENN.—Bids will soon be asked for constructing reinforced concrete bridge over Bayou Gayoso at Madison Ave. J. A. Ombers, Jr., is City Engr.

PADUCAH, KY.—The Nashville Bridge Co., Nashville, Tenn., has been awarded contract at $6,780 for construction of bridge over Massac Creek at Blandville Road.

LIMA, OHIO.—The County Commissioners have awarded contracts to the EAST IRON & BRIDGE CO. for constructing Morgan, Adgate & Rossie bridges amounting to $6,543.

TIFFIN, OHIO.—Bids are asked until Sept. 20 by the County Commissioners for repairing Perry St. bridge. Cost, $7,500.

SANDUSKY, OHIO.—The County Commissioners have let contracts for constructing single span concrete arch bridge 67 ft. in length in the southern part of the city for $7,500.

NILES, OHIO.—Bids are asked by the Board of County Commissioners at Warren until 1 p. m., Oct. 7, for reconstructing floor of bridge over Mahoning River at Main St., Niles.

DAYTON, OHIO.—Plans and specifications have been prepared for constructing bridge across Wolf Creek between Dayton View and Miami City. Estimated cost, $5,000. Robert E. Kline is City Engr.

LEBANON, OHIO.—The contract for constructing high truss steel bridge with concrete floor, two 135-ft. spans, and 16-ft. roadway over Little Miami River has been let to the OREGONIA BRIDGE CO., of this city, for $7,950.

GOSHEN, IND.—The ELKHART CONSTRUCTION CO. has been awarded contract for construction of four bridges.

MARQUETTE, MICH. — The JOLIET BRIDGE & IRON CO., Joliet, has been awarded contract for constructing 60-ft. steel bridge on concrete steel foundations across Dead River.

AURORA, ILL.—It is reported that the Aurora, Elgin & Chicago Ry. Co. will construct bridge over Main St. Estimated cost, $100,000. Charles Jones, at Wheaton, is Ch. Engr.

BLOOMINGTON, ILL.—The DECATUR BRIDGE CO. has been awarded contract for erection of 45-ft. steel bridge across Ten Mile Creek.

MILWAUKEE, WIS.—The County Board has awarded contract for constructing the Grand Ave. viaduct to the NEWTON ENGINEERING CO., of Milwaukee, for $372,000.

*FERGUS FALLS, MINN.—Bids are asked by G. H. Gard, City Clk., until 8 p. m., Oct. 3, for constructing steel or concrete bridge over Red River, at Mill St.

SHERMAN, TEX.—Bids are asked until Sept. 16 for constructing 75-ft. steel bridge with 16-ft. roadway. C. E. Craycroft is Mayor.

HUMBLE, TEX.—Bids are asked by the County Commissioners until Sept. 18 for constructing bridge over San Jacinto River, near Humble. The bridge will be 687 ft. long. Estimated cost, $40,000.

GUTHRIE, OKLA.—Bids are asked by the Board of County Commissioners until Sept. 31 for constructing bridge over Cimarron River in Dist. No. 31, Lawrie Township.

PENDLETON, ORE.—The question of constructing steel bridge to replace present structure at Lee St. is being considered. Estimated cost, $20,000.

OAKLAND, CAL.—Bids are asked by the Board of Supervisors, John P. Cook, Clk., until 10 a. m., Sept. 16, for constructing concrete bridge at Cleveland Ave.

FREDERICTON, N. B.—Bids are asked by the Department of Public Works, C. H. La Billois, Ch. Commissioner, until Oct. 14, for constructing metal superstructure span of Cocagne Mouth bridge, Kent County.

BRANDON, MAN.—The Board of Public Works has decided to construct reinforced concrete bridge over Assiniboine River.

## BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

HOOKSET, N. H.—Bids are asked until Sept. 15 for erecting an academy building at Hookset. T. Edward Sheehan is Arch., Tremont Bldg., Boston, Mass. Estimated cost, $150,000.

JAMAICA, L. I., N. Y.—The Pennsylvania R. R. Co. will spend $3,000,000 for a railroad station at Jamaica, Boro. of Queens. The preliminary plans, showing the tracks, subways and other facilities for traffic, are now in the hands of the railroad officials for consideration. It will be a distributing point for trains to Manhattan by way of the new tunnels under the East River and also for the Brooklyn and downtown transit system. There will be 18 tracks. The new station is to be built of brick, stone and concrete. The executive offices of the road will be on the second floor. Alexander C. Shand, Philadelphia, Pa., is Ch. Engr.

NEW YORK, N. Y.—We are officially advised that W. J. TAYLOR, 7 East 42d St., has contract to construct a studio building for the [illegible] West 57th St. Corporation, Walter S. Merritt, 27 William St., Pres. The structure will have seven stories in front and twelve in the rear. It will be 80 × 80 ft., construction of brick and stone, and will cost $500,000. Pollard & Steinam, 234 Fifth Ave., are Archs.

NEW YORK, N. Y.—Charles C. Haight, Arch., 452 Fifth Ave., has completed plans for a 4-story armory building for the Second Battery National Guard, at Franklin Ave. and 166th St. Brick, limestone and reinforced concrete, fireproofing, marble and tile work, structural iron and steel work will be used in construction. Estimated cost, $600,000. Bids will be received by the Armory Board, Hall of Records, next month.

NEW YORK, N. Y.—Bids are asked until 11 a m., Sept. 23, by C. B. J. Snyder, Supt. School Bldgs., Bd. of Education, for installing heating and ventilating apparatus in Public Schools Nos. 109 and 151, Boro. of Brooklyn, and in Public School No. 91, Boro. of Manhattan.

NEW YORK, N. Y.—WAKEHAM & MILLER, 1133 Broadway, are general contractors for the new church to be erected for St. Paul's Roman Catholic Parish, 116 East 18th St., to cost $160,000. Neville & Bagge, 217 West 125th St., are the Archs.

Blake & Williams, 211 West 20th St., on Sept. 3 submitted the only bid, at $19,987, for completing and finishing the heating and ventilating apparatus for additions to and alterations in Public School No. 109, on the southerly side of Dumont Ave., between Sackman and Powell Sts., Boro. of Brooklyn, in accordance with the original plans and specifications of contract awarded to Rossman & Bracken Co., which has been declared abandoned.

The following bids were received Sept. 3, by C. B. J. Snyder, Supt. School Bldgs., Bd. of Education, for installing heating and ventilating apparatus in new Public School No. 66, on the north side of 88th St., about 176 ft. east of First Ave., Boro. of Manhattan: Frank Dobson Co., 319 East 53d St., $36,915; James Curran Mfg. Co., 512 West 36th St., $37,722; E. Rutzler, 127 White St., $37,328; Blake & Williams, 211 West 20th St., $37,994.

SUFFERN, N. Y.—Allan A. Ryan, it is said, has awarded contract for the building of his summer home at Suffern, N. Y., to McCREEDY & FINCH, of Tuxedo. The building will cost nearly $1,000,000. It will take two years to complete it.

*WEST HAVERSTRAW, N. Y.—Bids are asked until noon, Sept. 30, by the Right Rev. H. C. Potter, Pres. Bd. of Managers, at West Haverstraw, for constructing, heating, plumbing and electric work in the open air pavilion at New York State Hospital for Care of Crippled and Deformed Children. G. L. Heins, Capitol, Albany, is State Arch.

NEWARK, N. J.—Nathan Myers, 238 Washington St., is revising the plans for a 4-story commercial and manual training high school building, 200 × 170 ft., for the Board of Education. The structure will be built of brick, with galvanized iron cornices and skylight, tile work, tar, gravel and roofing felt, hard plaster, structural iron and steel work, gas and electric fixtures and plumbing. Estimated cost, $400,000.

WILKINSBURG (Pittsburg post-office), PA.—The Women's Association of the United Presbyterian Church is planning to erect an addition to the Columbia Hospital and a new nurses' home, to cost $125,000. Plans have been prepared by J. L. Beatty, 146 Sixth St., Pittsburg, Pa. Mrs. H. C. Campbell is Pres.

PHILADELPHIA, PA. — An apartment house will be erected at the corner of 46th and Walnut Sts. for Berwind & Hoopes, owners, from plans by J. E. Mooney. Building will be of brick, stone and iron, fireproof, with steam heat, electric light. Cost will be about $200,000.

Estimates are being made on plans for a 6-story and basement hospital building and a 2-story building for surgical operations, to be erected for the Woman's Medical College of Pennsylvania, on the north side of North College Ave., near 22d St. The buildings will cover an area measuring 74.6 × 87.4 ft., and will be of fireproof construction, with a framework of structural steel, brick and terra cotta. The building for surgical operations will measure 45 × 40.10 ft., and will contain an operating room, with an amphitheater. Communicating with the operating room there will be a sterilizing room, an etherizing room, a recovery room, a physicians' dressing room, a students' room and a waiting room. The hospital building will have in the basement a radiography room, clinic rooms, etc. There will be rooms for resident physicians, offices, superintendent and nurses' bedrooms. The upper floors will contain wards and private rooms. A garden will occupy the roof. Janssen & Abbott, of Pittsburg, are Archs.

PITTSBURG, PA.—Bids are asked until 2 p. m., Sept. 27, by the Commissioners of Allegheny County, for construction of the Allegheny County Soldiers' Memorial, at Pittsburg. The building will cost about $800,000, and will be built of stone. F. P. Booth is County Controller. J. G. Chalfant, Court-House, Pittsburg, is County Engr.

D. H. Burnham & Co., Archs., 15 Jackson Boulevard, Chicago, will award contracts soon for erecting a 24-story office building, 120 × 212 ft., to be erected at Pittsburg for the Oliver estate. It will cost $2,500,000.

CUMBERLAND, MD.—J. Riely Gordon, 402 Fifth Ave., New York, is preparing plans for a 6-story bank and office building, at Cumberland, to cost $150,000.

WASHINGTON, D. C.—Albert Kelsey and Paul P. Cret, University of Pennsylvania, Philadelphia, are completing plans and will invite estimates soon for the proposed building of the Bureau of American Republics, to be erected at 17th and C Sts., Washington. The building will be the headquarters for 21 Republics, and will cost $1,000,000. Andrew Carnegie has contributed $750,000 towards the building fund, and the balance will be subscribed by the South American Republics. The building, which will be in the Spanish type of architecture, will measure 160 × 160 ft. It will be two stories in height, and contain a library, an assembly room and offices.

**Bids are asked by the District Commissioners until noon, Sept. 14, for constructing** an addition to the Petworth school building, situated at Brightwood Ave. and Philadelphia St. N. W., Washington.

The Superintendent of the U. S. Capitol Building and Grounds, Washington, D. C., has awarded the following contracts for the marble work in the toilet rooms of the House of Representatives office building: BLUE RIDGE MARBLE CO., of Nelson, Ga., standing marble work, $25,700; HILGARTNER MARBLE CO., Sharp St., Baltimore, floors, $12,485.

ATLANTA, GA.—The Southern Ry. Co. is reported to have submitted plans and specifications to contractors calling for bids within 30 days for construction of the proposed freight depot and terminals, to be added to the railway facilities at Atlanta. The structures will include a 7-story freight and office building to extend about 800 ft. and front 100 ft., construction to be fireproof; probably cement or concrete work. The OLIVER SOLLITT CO., First National Bank Bldg., Chicago, Ill., has contract to build outcoming and ingoing freight sheds in connection with the Southern terminal improvements. Excavation has begun for the retaining walls of the terminal buildings. About $500,000 is reported to be the expenditure contemplated in connection with these plans. D. W. Lum is Ch. Engr., Washington, D. C.

PENSACOLA, FLA.—Carpenter, Blair & Gould, 475 Fifth Ave., New York, are preparing plans and will receive bids about Oct. 1 for a 10-story bank and office building, 60 × 90 ft., for the American National Bank, Pensacola, Fla. The building will be constructed of brick, terra cotta and Bedford stone, with plate glass, tar and gravel roofing, structural iron and steel work, electric light fixtures and plumbing. Cost, $200,000.

MOBILE, ALA.—James A. Lewis has awarded contract to the JETT BROS. CONSTRUCTING CO. for erection of proposed apartment house, 10 stories, of steel and mill construction, with ornamental brick, stone and terra cotta. Cost, $200,000.

KNOXVILLE, TENN.—The GEORGE A. FULLER CO., Marquette Bldg., 204 Dearborn St., Chicago, Ill., has the general contract for constructing a bank and office building to be built at Knoxville, Tenn. It will be ten stories high, of fireproof steel construction, have pressed brick and terra cotta exterior, marble and mosaic work, steam heat, electric light, the latest improvements, and cost $150,000. Richard H. McCarthy & Bulford are Archs., The Ruggery, Columbus, Ohio.

CLEVELAND, OHIO.—J. Milton Dyer and F. G. Bates, Archs., Cuyahoga Bldg., have let general contract to ANDREW DALL & SON, 403 Lennon Bldg., for constructing an 8-story bank building for the First National Bank. John Sherwin is Pres. Cost, $300,000.

Press reports state that a church 16 stories high will replace the present Euclid Ave. Baptist Church. The building will contain lecture, club and class rooms, a restaurant, dormitories and a hospital.

CLEVELAND, OHIO.—Hubbell & Benes, Citizens' Bldg., have rejected the bids for the superstructure for a 3-story market house, at Lorain Ave. and West 25th St., for the Board of Public Service, W. J. Springborn, Pres., 105 City Hall. Estimated cost, $250,000. Contract for foundation has been let to the C. H. FATH & SON CONSTRUCTION CO., 519 Electric Bldg. The Board will readvertise for bids for the superstructure.

*SPRINGFIELD, OHIO.—Bids are asked until 3 p. m., Oct. 16, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for constructing, complete, an extension to the U. S. post-office at Springfield.

MUNCIE, IND.—The city authorities are preparing to let a contract for construction of a city hall and municipal building. Estimated cost, $100,000.

INDIANAPOLIS, IND.—Foltz & Parker, Indiana Pythian Bldg., are preparing plans for a brick and steel building for the Y. M. C. A., W. H. Godard, Secy. Cost, $250,000.

INDIANAPOLIS, IND.—D. A. Bohlen & Son, Majestic Bldg., wil prepare plans for the Sisters of St. Agnes for a 3-story brick and stone academy to be erected at Meridan and 14th Sts., at an estimated cost of $250,000.

SOUTH BEND, IND.—James Knox Taylor, Supervising Arch., Washington, D. C., has completed the plans for a Federal building to be erected in this city. As soon as specifications can be prepared, the work will be advertised.

CHICAGO, ILL.—The Seventh Regiment, I. N. G., will construct an armory on the plot of ground bounded by Wentworth Ave. and La Salle, 33d and 35th Sts. The building will cost $100,000. The new structure will cover practically the entire area. The exterior will be one story high, 160 × 258 ft., and will rest upon caisson foundations. The interior will be of fireproof steel construction, with steel roof trusses. The basement will contain a rifle range, bowling alleys and swimming pool. The interior will have two galleries; the lower will accommodate 2,000 and the upper 1,000 people. Excavation is to be commenced in October, and it is the intention to complete the structure by April 1.

MILWAUKEE, WIS.—All bids opened on August 26 by the Building Committee, Auditorium Board, for furnishing material and erecting an auditorium at State and Cedar Sts., have been rejected as being too high. Plans will be modified and new bids received. The appropriation available is $450,000. Ferry & Clas are Archs., 419 Broadway, Milwaukee. Alvin P. Kletzsch is Pres.

DES MOINES, IOWA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 21, for the construction of the U. S. post-office building, at Des Moines.

MUSCATINE, IOWA.—Bids are asked until 2 p. m., Sept. 26, for erecting a fireproof court-house for the County of Muscatine, in this city. Joseph E. Mills, 510 Washington Arcade, Detroit, Mich., is Arch.; W. H. Fishburn is Chn.; A. S. Lawrence is County Audr.

FARGO, N. DAK.—Hancock Bros., Archs., Fargo, have prepared plans for a 5-story hotel for the Gardner Hotel Co. It will be made of pressed brick and cut stone, of reinforced concrete construction, 115 × 146 ft. A. L. Loomis is Treas. Cost, $100,000.

ST. LOUIS, MO.—H. Deitering, Arch., Missouri Trust Bldg., has plans ready for bids for a 4-story apartment building, 230 × 74 ft., at Grand and Castleman Aves., for the Shisler Bidwell Building Co. The structure will be built of brick, Carthage stone and terra cotta, with copper cornices, plate glass, marble, mosaic and tile work, hard plaster, composition roof, iron and steel work, gas and electric fixtures, mantels and plumbing. Cost, $200,000.

J. C. Stewart & Co., Lincoln Trust Bldg., are having plans prepared for an 8-story mercantile building, at Washington Ave. and 13th St. Construction will be of terra cotta, brick and reinforced concrete. Cost, $300,000.

KANSAS CITY, MO.—Frank S. Rea, Arch., Dwight Bldg., it is said, is preparing plans for remodeling the county poor farm buildings. As soon as they are finished contracts for construction work will be let. The cost is to be about $250,000.

FORT WORTH, TEX.—Bids are asked until Sept. 16 for all work necessary for completion of coliseum building in North Fort Worth. It is desired to let the above work to one bidder. All excavation and foundation work has been completed. Large steel trusses and roof material have been contracted for. Specifications and plans may be seen at office of W. B. King, Gen. Mgr., Fort Worth Stock-Yards Co., North Fort Worth, Tex.

SEATTLE, WASH.—W. D. Kimball, Arch., 313 New York Bldg., has prepared plans for an 18-story building to be erected at Marion St. for the Puget Sound Realty Association. Cost, $800,000.

PULLMAN, WASH.—We are officially advised that HASTIE & DOUGAN, Washington Bldg., Seattle, have contract to construct a Recitation building for the State College at Pullman, at $110,947. G. H. SUTHERLAND CO., Walla Walla, Wash., has contract for heating, at $7,560. Contracts were let by the State Board of Control, J. H. Brown, Clerk, Olympia.

LOS ANGELES, CAL.—Work on excavation for the Hamburger Majestic Theater, to be erected on the west side of Broadway, just north of Ninth St., will be completed at once, and it is intended to proceed with the construction work on the building as rapidly as possible. The contract calls for the completion of the structure within eight months. The building is to be of reinforced concrete construction, with pressed brick front and terra cotta trimmings. The estimated cost is $225,000. Edelman & Barnett are Archs., and Mayberry & Parker are Constr. Engrs. The building will cover a ground space 80 × 175 ft., and will be eight stories high. The seven upper floors will be divided into offices.

*WHIPPLE BARRACKS (Prescott post-office), ARIZ.—Bids are asked until 10 a. m., Oct. 12, by Capt. Charles C. Walcutt, Jr., A. Q. M., at this post, for constructing a hospital here.

MOSCOW, IDAHO.—The Board of Regents of the Idaho University have let the contract for the construction of the administration building to A. D. WHITEHEAD, of Boise, Idaho, for $162,817, being $28,483 below his bid for the same work a few days ago, when all the bids were rejected by the Board on the ground that they were excessive. This bid is $26,088 below the bid of the Campbell Building Co., of Salt Lake City, Utah, which was the lowest bid at that time.

OTTAWA, ONT.—Plans have been approved by the Dominion Government for the new central station at Ottawa to be built for the Grand Trunk Ry. System. The plans include an office building ten stories high, and the cost of the structure is estimated at between $1,000,000 and $2,000,000. H. G. Kelley, Montreal, is Ch. Engr.

Plans have been submitted to the Government for a hotel building in Major Hill Park at an estimated cost of $1,000,000.

TORONTO, ONT.—The General Electric Co. will erect a building at the corner of King and Simcoe Sts., Toronto. Cost, $180,000.

VANCOUVER, B. C.—The contract for erecting an 8-story warehouse for David Spencer, Ltd., has been awarded to SMITH & SHERBORNE, of Vancouver, at $120,000.

## WATER SUPPLY—IRRIGATION.

PITTSFIELD, MASS.—The AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston, has been awarded contract for constructing reservoir dam 32 ft. high and 465 ft. in length at Ashley Brook to create an additional water supply.

ROME, N. Y.—Plans and specifications for constructing dam at Fish Creek and tunnel about 5,500 ft. in length, as advertised, are on file at office of Engineering News, New York. Bids are asked by the Board of Water and Sewer Commissioners, Ray Armstrong, Clk., until Sept. 25. Knight & Hopkins, of Rome, are Engrs.

*WILMINGTON, DEL.—Bids are asked by the Water Department until 1.30 p. m., Sept. 30, for constructing covered slow sand filters, consisting of six beds and covered filtered water reservoir with capacity of 10,000,000 gallons, together with all appurtenances. Theodore A. Leisen is Ch. Engr.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Sept. 27, by the Commissioner of Indian Affairs, Washington, for improving water system at Fort Lewis School, Colorado. C. F. Larrabee is Acting Comr.

*CHARLOTTE, N. C.—Bids are asked by the Board of Water Commissioners, P. H. Williams, Supt., until noon, Sept. 19, for furnishing approximately 440 tons c.-i. pipe and specials, 37 Matthews pattern fire hydrants and 6, 8, 12, 16 and 20-in. valves. Bids also are asked at the same time for laying approximately 1,800 ft. 20-in., 4,150 ft. 12-in. and 250 ft. 6-in. water mains, together with necessary valves, hydrants and specials.

ATHENS, GA.—The filtration plant at the water-works will probably be enlarged. J. W. Barnett is City Engr.

PENSACOLA, FLA.—The Bureau of Yards and Docks, Navy Dept., Washington, will award to the NEWPORT PLUMBING, HEATING & TINNING CO., Newport News, Va., contract for installing a water system and circulating mains, at the Navy Yard, Pensacola, Fla., at $35,678.

FT. MORGAN, ALA.—Bids are asked by Capt. Louis F. Garrard, Jr., Box 605, Mobile, Ala., until 11 a. m., Sept. 25, for constructing 150,000-gallon tank and trestle, pumping plant, ice machine and cold storage at Ft. Morgan.

GLOUCESTER CITY, N. J.—The City Council has awarded contract for installing 3,000,000-gallon pump at the water-works to the D'OLIER ENGINEERING CO., 121 South Eleventh St., Philadelphia, Pa., for $3,495.

COLUMBUS, OHIO.—The lowest bid recently received for laying water mains from the filtration plant was submitted by Westwater & Casey, at $164,681. Henry C. Maetzel is City Engr.

ASHLAND, OHIO.—The following bids were recently received by the Board of Public Affairs for installing pumps and boilers at the water-works plant: Snow Steam Pump Works, 898 Ellicott Sq., Buffalo, complete pump engine, $15,250; Columbus Equipment Co., two boilers, $5,590; Columbus Equipment Co., Rob Mumphard boiler, $5,050; Springfield Boiler & Manufacturing Co., boilers, f. o. b. Ashland, $3,881; Canton Hughes Pump Co., pump engine, $7,975; Gem City Boiler Co., two boilers, $6,250; D. Connelly, two boilers, $6,100; Marine Engine & Machine Co., pump engine, $14,975; Platt Iron Works Co., pump engine, $10,225; Kingford Foundry & Machine Works, two boilers, $2,290; D'Oiller Engineering Co., 121 South Eleventh St., Philadelphia, Pa., pump engine, $14,950; Canton Hughes, Special B pump engine, $6,725; and Special C pump engine, $6,170. F. L. Niederheiser is City Engr.

GOSHEN, IND.—Plans and specifications are being prepared by the County Commissioners for constructing ditches in Union, Jackson and Clinton Townships.

DALLAS CITY, ILL.—H. J. COLE, South Bend, Ind., has been awarded the contract, at $9,499 for construction of water-works system.

DECATUR, ILL.—The contract for constructing pumping station at the water-works plant has been awarded to C. W. CARR, of Clinton, for $33,575. A. B. Alexander is City Engr.

CHICAGO, ILL.—JAMES W. REDMOND has been awarded contract for completing the Lawrence Ave. pumping station for $15,000. The contract for completing the Lawrence Ave. intake tunnel has been secured by W. J. NEWMAN, at $159 per lin. ft.

HARMON, ILL.—We are officially advised that a water-works system will soon be installed. Engineer not selected as yet. Benj. F. Swab is Village Clk.

HALBUR, IOWA.—A water-works system wil soon be installed.

MARION, KAN.—At a recent election it was voted to expend $33,000 for constructing water-works. Fred. Lewis is Chn. Water-Works Com. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

FRANKLIN, NEB.—A municipal water-works plant will be constructed. Estimated cost, $17,000.

WINSIDE, NEB.—The SIOUX CITY FOUNDRY & MFG. CO. has been awarded contract at $10,000 for installing water-works system, including pumping station, steel tank and tower.

KANSAS CITY, MO.—A pumping engine of at least 20,000,000 gals. capacity, the metering of all services and a reinforcement of the distribution system by 30 to 12-in. pipe in various streets are recommended in a report just published by the Committee on Fire Prevention of the National Board of Fire Underwriters, 135 William St., New York. S. Y. High, Supt. Water-Works.

CALIFORNIA, MO.—Bonds amounting to $60,000 have been issued for constructing water-works. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

RUSSELLVILLE, ARK.—The following are the two lowest bids received Aug. 20 by the Board of Water Commissioners for constructing water-works: Jas. G. Lyons, of Muskogee, Ind. T., $36,920, and the Southern Engineering & Construction Co., Pine Bluff, Ark., $42,500.

BEAUMONT, TEX.—The Beaumont Water Co. will enlarge its plant and extend the present mains.

BRONTE, TEX.—A company is being formed by local capitalists for constructing water-works. The water will be taken from the Colorado River, a distance of three miles.

WELEETKA, IND. T.—The Weleetka Light & Power Co. contemplates enlarging and improving the water-works system. A 200-KW. dynamo will probably be installed. D. F. Campbell is Mgr.

CANON CITY, COLO.—The Copper Gulch Pipe Ditch Co. will construct a pipe line five miles in length, capable of delivering 3.3 cu. ft. of water per second. A dam and headgate will also be constructed. Estimated cost, $3,000.

FT. COLLINS, COLO.—The Water Supply & Storage Co. will construct the Black Hollow reservoir, twelve miles northeast of Ft. Collins and above the company's canal. The capacity of the reservoir will be 250,000,000 cu. ft. Estimated cost, $40,000.

LYNDEN, WASH.—Plans are being prepared by George Harrop, of South Bend, Ind., for constructing water-works. Estimated cost, $8,000. H. F. Treloor is Village Clk.

CORTE MADERA, CAL.—The Marion County Water Co. will construct a 3,000,000-gallon reservoir to supply Corte Madera and Larkspur with water.

BLOOMINGTON, CAL.—W. W. WILCOX, of Colton, has been awarded contract for installing water mains in the new town of Crestmore, south of Bloomington.

PHOENIX, ARIZ.—About $150,000 will be expended in improving the plant of the Phoenix Water Co., purchased by the city. Bids will probably be received during September for improving the pipe system. The pumping station is to be enlarged later. Howard S. Reed, Phoenix, is Engr.

TUCSON, ARIZ.—Plans and specifications are being prepared for improving the water-works. Bids will soon be asked by the Council. T. Conlon is Supt. Water-Works.

MONTREAL, QUE.—We are officially advised that the following bids were received Sept. 6, by the Water Committee, for constructing a reinforced concrete conduit: Patrick McGovern, 6 Beacon St., Boston, Mass., $684,815; Louis P. Nott, Manchester, England, $767,600; La Societe Canadienne, d'Enterprise Generale, Montreal, $787,700; Treffle Bastien, Montreal, $1,025,151; Engineer's estimate, $640,800. George Janin, C. E., is Ch. Engr. and Supt. Water-Works.

## SEWERAGE.

(* *denotes that this work is advertised in Engineering News.*)

NEW BEDFORD, MASS.—Plans and specifications for constructing sewerage system for northern portion of the city have been prepared by William F. Williams, City Engr.

*WOONSOCKET, R. I.—Bids are asked by the Board of Sewer Commissioners until 2 p. m., Sept. 19, for constructing sewers. The work includes about 900 ft. 8-in. sanitary sewer and 600 cu. yds. rock excavation. Frank H. Mills is City Engr.

NEW HAVEN, CONN.—Bids are asked until Sept. 16, by C. W. Kelly, City Engr., for constructing sewers in portions of various streets.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Bd. of Education, until 11 a. m., Sept. 23, for general construction, etc., of a sewage disposal plant for the buildings of the Parental School, on the westerly side of road between Flushing and Jamaica, about 1,700 ft. south of North Hempstead Turnpike, Flushing, Boro. of Queens.

TROY, N. Y.—Bids are asked by the Board of Contract and Supply, James M. Riley, Clk., until 11 a. m., Sept. 13, for constructing salt glazed vitrified drain pipe sewer in portions of Stannard Ave. The work includes 460 ft. 8-in. pipe, three manholes and 330 ft. 6-in. laterals. Edward B. Cary is City Engr.

NEWARK, N. Y.—Bids are asked by Charles McLouth, Pres. Bd. of Mgrs., New York State Custodial Asylum, Newark, until 10 a. m., Oct. 1, for construction of sewage disposal plant. George L. Heins is State Arch.

BADEN, PA.—We are officially advised that the Town Council has awarded contract for constructing system of sanitary sewers to THOMAS SWEENEY & CO., 4900 Cypress St., Pittsburg, Pa., at $10,545. The following bids were also received Aug. 26: George B. Clifford, Martins Ferry, Ohio, $15,312; L. D. McCafferty, Pittsburg, $14,602; Pennsylvania Construction Co., 209 Ninth St., Pittsburg, $16,237; G. Walen & Co., Pittsburg, $13,908; Trefall & De Girno, Pittsburg, $11,141; Ott Bros., 414 Washington Ave., Pittsburg, $15,037; Neelen & Daly, Allegheny, Pa., $14,555, and George S. McFall, Beaver Falls, Pa., $14,985. J. P. Leaf, Rochester, Pa., is Boro. Engr.

LANCASTER, PA.—See under Light and Power Plants.

FT. DADE (Egmont post-office), FLA. — Bids are asked by the Constructing Quartermaster until 8 p. m., Oct. 3, for repairing and extending sewer outlet at Ft. Dade.

CHATTANOOGA, TENN.—Bids are asked until Sept. 16 for extending Chestnut St. sewer.

LOUISVILLE, KY. — The following bids were received Aug. 28 by the Commissioners of Sewers, J. B. F. Breed, Ch. Engr., for constructing Happy Hollow sewer: R. L. CLARK & CO., 605 W. Market St., Louisville, $25,641 (awarded contract); Paul & Kershner, Dayton, Ohio, $31,489; F. W. Folz & Co., Cincinnati, Ohio, $31,770; Kentucky Construction Co., Louisville, $35,289; C. F. Fitch & Co., Louisville, $43,050.

CANAL DOVER, OHIO.—The following bids have been received for constructing sewer: ADAM SCHWAB, New Philadelphia, Ohio, $16,723 (awarded contract); Sheets & Lyon, Newcomerstown, Ohio, $16,802; Parshall & Co., Akron, Ohio, $20,608.

OAKLEY (Cincinnati post-office), OHIO.—Bids are asked by David K. Mason, Village Clk., until noon, Sept. 14, for constructing sewers. Walter E. Sullivan, Commercial Tribune Bldg., Cincinnati, is Village Engr.

DAYTON, OHIO.—Bids are being received for extending the Chicago Ave. storm water sewer. Robert E. Kline is City Engr.

STEUBENVILLE, OHIO.—Bids are asked by the Board of Public Service, T. W. Vance, Clk., until noon, Sept. 30, for constructing sewers, etc.

CANTON, OHIO.—Bids are asked by the Board of Public Service, B. F. Faust, Clk., until noon, Sept. 16, for constructing sewer in North Cleveland Ave. The approximate quantities are as follows: 2,500 lin. ft. 8-in. vitrified pipe, 385 lin. ft. 6-in. vitrified pipe, 1,600 lin. ft. house connections, eleven manholes, one flush tank. W. E. Sarver is City Engr.

MUNCIE, IND.—The Board of Public Works has let contract to C. H. RUSSEY for construction of sewer in Franklin St. for $1.35 per ft. John A. Potter is City Engr.

EVANSVILLE, IND.—The contract to construct the Kentucky Ave. concrete sewer has been awarded to the HALLERBACH & MAY CONTRACTING CO., of Evansville, for $168,926. James D. Saunder is City Engr.

EVANSVILLE, IND.—T. W. MURRAY has been awarded contract for constructing sewer in Block 96. James D. Saunder is City Engr.

PORTLAND, IND.—N. R. GRIFFITH, Portland, has been awarded contract at $8,463 for construction of 36-in. sewer in Pleasant St.

SOUTH BEND, IND.—Bids will soon be asked by the Board of Public Works for constructing sewer in Cherry St. and Notre Dame Ave. Alonzo J. Hammond is City Engr.

BRAZIL, IND.—Plans and specifications have been ordered prepared for construction of sanitary sewer system through the city, beginning at Hadleytown suburb.

MERRILL, MICH.—EDWARD EISLEE, Saginaw, has been awarded contract for constructing Alice and Midland St. sewers.

GLADSTONE, MICH.—The NORTHERN CONSTRUCTION & ENGINEERING CO., of Escanaba, has been awarded contracts amounting to about $30,000 for constructing sewers and pavements.

YPSILANTI, MICH.—Bids are asked by the Commissioners of Public Works, George Walterhouse, Chn., until 9 a. m., Sept. 16, for constructing about 2,800 ft. of storm sewer.

*CADILLAC, MICH.—Bids are asked by the Board of Public Works, George Johnston, Clk., until noon, Oct. 1, for constructing sewage purification works and pumping station.

ELGIN, ILL.—The question of constructing storm and sanitary sewers in the west side district is being considered.

SPRINGFIELD, ILL.—A brick sewer will be constructed in southern portion of the city. Estimated cost, $50,000. Frank H. Hamilton is City Engr.

*NORTH CHICAGO, ILL.—Bids are asked by the Bureau of Navigation, Navy Department, Washington, D. C., until noon, Sept. 27, for laying sewers and drains at the Naval Training Station, Great Lakes, North Chicago, Ill. Cameron McR. Winslow, Washington, D. C., is Acting Chief of Bureau.

JOLIET, ILL.—The Board of Local Improvements recently authorized construction of First Ward trunk sewer system. Estimated cost, $31,000. H. A. Stevens is City Engr.

COLLINSVILLE, ILL.—The Board of Local Improvements has awarded contract for constructing sanitary sewerage system in Dist. No. 1 to JOHNSON & CO., of this city for $18,831. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

OELWEIN, IOWA.—R. C. DE LA HUNT, of Cedar Rapids, has been awarded contract for installing sewage disposal plant.

DES MOINES, IOWA.—The GEORGE M. KING CONSTRUCTION CO. has been awarded contract at $1.37 per lin. ft. for constructing Center Drive sewer. George D. Dobson is City Engr.

REMSEN, IOWA.—A sewerage system will probably be constructed.

WAPELLO, IOWA.—A sewer will be constructed. Estimated cost, $6,515. E. F. Christie is City Recorder.

WINNEBAGO, MINN.—The J. W. TURNER CO., Des Moines, Iowa, has been awarded contract at $15,000 for construction of sewers.

ST. PAUL, MINN.—The lowest bid received Aug. 22 by the Board of Public Works for constructing sewer in Reaney St. was submitted by John Lind, at $7,300. L. E. Rundlett is City Engr.

AURORA, NEB.—Bids are asked until Sept. 21 by Dennis Saylor, City Clk., for constructing sewer system.

REDFIELD, S. DAK.—Bids are being received for constructing about one mile of sewers.

BILLINGS, MONT.—Bids are asked until Oct. 1 for constructing Main St. sewer. Estimated cost, $85,000. Henry Gerharz is City Engr. J. D. Matheson is City Clk.

FAYETTEVILLE, ARK.—The city has awarded contract to C. W. WATSON & CO., St. Louis, Mo., for construction sewer system for $71,377. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

PARAGOULD, ARK.—The W. K. Palmer Co., Kansas City, Mo., will superintend construction of the proposed sewer system. Estimated cost, $40,000.

CLINTON, OKLA.—The Clinton Sewer Co. has been incorporated by A. Lacy, T. J. Nance, James C. Davis and associates.

GUTHRIE, OKLA.—The city has voted bonds amounting to $40,000 for construction of storm-water sewer and main sanitary sewers.

SEATTLE, WASH.—Bids will soon be asked by the Board of Public Works, C. B. Bagley, Supt., for constructing main trunk sewer system, known as the North Trunk Sewer. The sewer will be divided into districts to be known as Green Lake, Lake Washington, Central, Lake Union and Fort Lawton Districts. Total estimated cost, $3,000,000. R. H. Thomson is City Engr.

SEATTLE, WASH.—Bids will soon be asked for constructing the Connecticut St. trunk sewer. Estimated cost, $83,000. R. H. Thomson is City Engr.

H. F. JAHN & CO., 511 Colman Block, Seattle, have been awarded contract for constructing sewers in 26th Ave. for $5,456.

KENT, WASH.—The City Council has decided to install sewerage system immediately. Estimated cost, $4,000.

CENTRALIA, WASH.—T... has awarded contract to ... BRIDGE CO., of Tacoma, ... sewerage system for $22,1...

HOQUIAM, WASH.—Cem... probably be constructed ... Sts. Estimated cost, $12,0...

COLUSA, CAL.—The To... template constructing sewer ...

FAIRFIELD, CAL.—Bids ... 30 for constructing sewera... mated cost, $20,000.

BERKELEY, CAL.—The ... have decided to construct ... central portion of the town ... Strawberry Creek. Estimat... $40,000.

OAKLAND, CAL.—Bids ... Sept. 18 by the Board of Pu... ter B. Fawcett, Secy., for ... terial and constructing co... stone intercepting sewer in ... St.

OCEANPARK, CAL.—An ... $6,500 has been made by th... Trustees for extending the o... ft. seaward.

NAMPA, IDAHO.—Bids a... Sewer Commission, Claude D... 8 p. m., Sept. 18, for constr... gravity sewer.

MONTREAL, QUE.—Bids ... asked for constructing sewer ... St. Paul. Estimated cost, $1... Dupont, Montreal, is Engr.

## STREETS AND ROADS.

LEWISTON, ME.—About 3,... sq. yds. of granite block pavement will be laid. John A. Jones is City Engr.

HAMPSTEAD, N. H.—Bids are asked until Sept. 17 by A. W. Dean, State Engr., at Concord, for grading and surfacing with trap rock portion of Main St.

BOSTON, MASS.—The following bids were received Aug. 27 by the Massachusetts Highway Commission at Boston for constructing (a) road in Haverhill, and (b) road in Barnstable: W. H. Gross & Co., (a) $15,458; F. E. Ellis, (a) $13,727; J. E. Watkins, (a) $12,010; R. F. Hudson, (a) $11,295; (b) $6,660; Ed. Adams, (a) $10,964; William Sears, (b) $6,329; C. H. Thomas, (b) $6,053.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Sept. 18, for regulating, grading, paving, etc., portions of various streets, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., Sept. 26, for: (A), furnishing and delivering topsoil or garden mould to parks and parkways in the Boroughs of Brooklyn and Queens; (B), furnishing and delivering 3,000 cu. yds. fine bank gravel on bridle path, Ocean Parkway, between Prospect Park and Coney Island; (C), furnishing and delivering 4,000 cu. yds. double-screened Hudson River road gravel to parks and parkways, Borough of Brooklyn; (D), furnishing and delivering topsoil on garden mould to various parks in Borough of Brooklyn.

ALBANY, N. Y.—Frederick Skene, State Engr. and Surv., has awarded contracts for improvements to public highways as follows: To the STEWART-KERBAUGH-SHANLEY COMPANY, 527 Fifth Ave., New York: Coleman Hill, section 2, Onondaga County; West Oswego River, Oswego County, 1.3 miles, $25,423; Middletown-Cuddebackville, section 2, Orange County, $51,072; Sprakers-Rural Grove, Montgomery County, $35,794; Kingston-Ulster Landing, Ulster County, $48,797; State road, Cortland County, $35,935. Gloversville, Bull Run, Fulton County, $35,432; Left Fork German Church-Redman, Monroe County, $36,328; Skaneateles-Hamilton, Onondaga County; Fonda-Tribes Hill, $18,705; Mayfield-Northville, Fulton County, $10,408; Redwood-Alexandria Bay road, Jefferson County, $25,517; Clover St., section 1, Monroe County, $40,456; Cemetery, Onondaga County, $10,934. To ROBERTSON & GERHART, Park Row Bldg., New York: Albany and Schenectady road, section 2, $50,700. BOARD OF SUPERVISORS, Orange County, Walden-Pine Bush road. ALONZO SCHUPP, Albany, Northville-Chapman's Corners road, Fulton County, $15,346. F. W. KNICKENBURG, Brooklyn, N. Y., Maple Ridge road, section 2, Orleans County, $15,000.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., Sept. 16, for furnishing about 16,000 asphalt blocks, to replace portions of the pavement on South Pearl St.; also for cleaning and painting the Northern Boulevard viaduct over the tracks of the New York Central & H. R. R. Isidore Wachsman is Clk. Walter Melius is City Engr.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply, Isidore Wachsman, Clk., until 3 p. m., Sept. 16, for improving Sheridan Ave., from west line of Northern Boulevard to east line of Lexington Ave. The work includes grading, curbing and paving the carriageway with granite blocks, repairing and laying sidewalks with flags and vitrified bricks, building receiving basins, etc. Bids also are asked for improving Bradford St. from west line of Robin St. to east line of North Lake Ave. The work includes grading, curbing and paving the carriageway with vitrified paving blocks, repairing and laying sidewalks with flags and vitrified bricks, building receiving basins, etc. Walter Melius is City Engr.

SOLVAY (Syracuse post-office), N. Y.—The Board of Village Trustees has awarded contract for paving portions of West Woods Road and Second St. to John V. Bustin, at about $9,000.

JAMESTOWN, N. Y.—All bids received Sept. 2 for laying 23,000 ft. of cement curb and gutter have been rejected. C. G. Jones is City Engr.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., Sept. 2[illegible] for repaving portions of various streets.

UNION ...chawken post-office), N. J.—...d by the Town Council until ...t. 16, for grading, resetting, ...curbing ...on portions of Pleasant Ave. and Bu... ...Road. Emil Bautz, Jr., is Town Cl...

WEEH... ...EN, N. J.—Bids are asked by the Tow... Committee until 8 p. m., Sept. 16, for ...ating and paving with brick portion ...egory Ave. George W. Bond, Jr., is Clk. Thomas Carroll is Township

WOOD... ...F, N. J.—Bids are asked until Sept. 2... the Borough Council for macadamizing ...Mill Road and Pascack Road, Woodcli... ...ights Road and Glen Road, a distance ...3,768 ft.

RIVE... ...N, N. J.—The contract for laying 20... ...sq. yds. paving has been let to A. BR... WALLACE CO., Drexel Bldg., Philade... Pa., at 17½ cts. per sq. ft. E. A. Par... is Chn. Highway Com.

RAH... ...Y, N. J.—Bids are asked by the Commo... Council until 8.15 p. m., Sept. 17, for re... ...g the macadam pavement on various ...reets. Franklin Marsh is City Engr.

READ... ...G, PA.—The Board of Public Works has awarded the contract for paving portions of various streets to FEHR & O'ROURKE, at $1.87 per sq. yd. Elmer Beard is City Engr.

CHRISTIANA, DEL.—The Levy Court has awarded contract for constructing two miles of road between Christiana and Stanton to THEOBALD HARSCH, of Narberth, Pa., for $15,000.

*WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, Sept. 21, for laying cement sidewalks.

GASTONIA, N. C.—The ATLANTIC BITULITHIC CO., 413 Mutual Bldg., Richmond, Va., has been awarded contract for laying 10,000 sq. yds. of bitulithic pavement on Main St. S. C. Cornwell is Engr.

*DURHAM, N. C.—Bids are asked by the Board of County Commissioners, M. G. Markham, Clk., until 3.30 p. m., Oct. 1, for constructing about 11½ miles of macadam road. The approximate quantities are: 60,000 sq. yds. 6-in. macadam and 75,000 cu. yds. excavation, together with necessary pipe and reinforced concrete drains. Gilbert C. White, Durham, is Engr.

LENOIR, N. C.—The Lenoir & Blowing Rock Turnpike Co. has been incorporated with $125,000 capital stock by C. V. Hinkle, J. M. Bernhardt, Charles A. Hiatt and associates to build turnpike from Lenoir to Blowing Rock, thence to Virginia or Tennessee line.

JACKSONVILLE, FLA.—The contract for laying 6,000 sq. yds. pavement on Adams St. has been awarded to the GEORGIA ENGINEERING CO., of Augusta, Ga., at $1.69 per sq. yd. Philip Prioleau is City Engr.

ANNISTON, ALA.—The City Council has awarded contract for laying sidewalks on Noble, Wilmer, Quintard and Leighton Aves, to JOHN BIGLER, at 92 cts. per sq. yd.

JASPER, ALA.—Bids are being received for laying cement sidewalks and curbing. L. M. Smith is City Clk.

GREENVILLE, TENN.—The Highway Commissioners of Green County have awarded contract to KILLION, TURNER & CO., of Jasper, Tenn., for improving highways, at about $50,000.

EUCLID, OHIO.—Bids are asked by H. S. Dunlop, Village Clk., until Sept. 16, for furnishing material and macadamizing portion of Euclid Road.

TOLEDO, OHIO.—HENRY P. STREICHER has been awarded contract for paving portion of Locust St. with vitrified block for $5,617. Frank I. Consaul is Ch. Engr., Bd. Pub. Service.

COLUMBUS, OHIO.—The Board of Public Service has let contract for improving portion of Mount St. to D. E. SULLIVAN & SONS, for $43,412. Henry C. Maetzel is City Engr.

DAYTON, OHIO.—The City Council has awarded contract for paving portion of River St. to A. WROE & SONS, for $22,423. Robert E. Kline is City Engr.

CINCINNATI, OHIO.—The Board of County Commissioners has awarded contract for improving Carmago Pike, in Sycamore Township, to A. D. DESCH & SON, at $22,665. The following bids were also received: F. H. Kirschner Construction Co., $22,674; W. H. Settle, $23,650; Frank Arstingstall, $23,760, and S. E. Maxfield, $25,580.

POSEYVILLE, IND.—The contract for grading and paving Main, Cale and Locust Sts. has been awarded to the MT. VERNON CONSTRUCTION CO., at 11,870.

FRANKFORT, IND.—Bids are asked by the County Commissioners of Clinton and Carrol Counties until 10 a. m., Sept. 20, for constructing gravel road No. 19, approximately 18,408 ft. in length. Chas. F. Cromwell is Audr. of Clinton County.

SHELBYVILLE, IND.—Bids are asked by the City Council until 7:30 p. m., Sept. 17, for macadamizing Center St.; laying cement sidewalks in Harrison, Jackson and Hendricks Sts. and Broadway. H. J. Clark is City Clk.

TERRE HAUTE, IND.—Bids are asked by the Board of Public Works, Herbert Briggs, Secy., until 4 p. m., Sept. 13, for improving portion of Poplar St. Edgar Schmidt is City Engr.

COVINGTON, IND.—Bids are being received by the County Commissioners for constructing four gravel roads, aggregating 57,460 ft. in length. William B. Gray is County Audr.

SOUTH BEND, IND.—G. C. SAGENAW, South ..., has been awarded the contract for ... six blocks on Bros...way with brick. ...zo J. Hammond is City Engr.

*QUI... ILL.—Bids are asked by the Board ... Local Improvements until 2 p. m., Sept. ... for laying brick pavement on portion of Tenth St. The work includes 14,230 sq. yds. paving, 6,821 lin. ft. sandstone curbing and 6,688 cu. yds. excavation. F. L. Hancock is City Engr.

DANVILLE, ILL.—Bids are asked until Sept. 26 by the Board of Local Improvements for paving portions of Oakwood Ave., Green and Main Sts., and curbing and paving portion of Van Buren St. W. H. Martin is City Engr.

BUSHNELL, ILL.—P. H. TIERNAN, of Macomb, has been awarded contract for paving, at $19,793.

MANKATO, MINN.—The contract for macadamizing and curbing portion of Fifth St. has been awarded to the T. R. COUGHLIN CO., at $5,283. M. B. Haynes is City Engr.

WINONA, MINN.—Bids are asked by the City Council until Sept. 16 for paving alley No. 23 with vitrified brick. H. B. Walling is City Engr.

IOLA, KAN.—Bids are asked until noon, Sept. 19, for paving, grading and curbing portions of various streets. M. R. Amerman is City Engr.

BILLINGS, MONT.—Bids are asked by J. D. Matheson, City Clk., until Sept. 17, for laying about 8,500 sq. yds. macadam pavement and 3,900 lin. ft. concrete curb and gutter.

Bids are asked by J. D. Matheson, City Clk., until Oct. 1 for macadamizing and draining various streets; also for laying about 6,305 sq. yds. shale brick pavement. Henry Gerharz is City Engr.

*DALLAS, TEX.—Bids are asked by J. B. Winslett, City Secy., until 3 p. m., Sept. 20, for paving Ross Ave. and Main St.

MARSHALL, TEX.—Bonds amounting to $200,000 have been voted for laying pavements and sidewalks. John W. Maxcy, Binz Bldg., Houston, Tex., is Engr.

SEATTLE, WASH.—The following contracts have been awarded by the Board of Public Works: SPARGER CONCRETE CO., Lowman Bldg., concrete sidewalks on Olympia Way, $3,884. A. L. WALTERS, concrete sidewalks on Kilbourne St., $5,094. KALBERG & CO., grading, etc., 13th Ave. South, $55,490. H. F. JAHN & CO., regrading East Denny Way, $11,583, and concrete sidewalks on Third Ave. West, $11,857.

Bids are asked by C. B. Bagley, Secy. Bd. Pub. Wks., until Sept. 14 for paving with asphalt 40th Ave. Estimated cost, $105,500. R. H. Thomson is City Engr.

The following bids were received Aug. 31 by the Board of Public Works for planking Railroad Ave.: Sparger Concrete Co., 562 Lowman Building, $36,001; O. Lindland & Co., 3802 Densmore Ave., $34,872; Rydstrom & Goerig, 1802 16th Ave., $35,465; Hans Pederson, 501 Fairview Avenue, $38,723.

GOLDFIELD, NEV.—Bids are asked by the Board of County Commissioners, E. Hardy, Clk., until 11 a. m., Sept. 16, for grading and paving, curbing, etc., portions of various streets.

## MANUFACTURING PLANTS.

*(* denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—H. C. Page, Gen. Mgr. of the Springfield Street Ry. Co., is reported to have announced that car-house and repair shops, which the company has planned, will be located at the corner of Main and Hooker Sts. A total expenditure of $200,000 to $250,000 is involved. The building probably will be one story high and of brick. There will be a car-house capable of accommodating 115 to 120 cars, a repair shop, repair crew quarters and a storehouse for the keeping of duplicate parts. The repair shop will be so arranged that a damaged car will be run into the truck room, where the trucks will be overhauled, and will then pass successively through the carpenter, blacksmithing and electrical departments and paint shop. H. C. Page, Springfield, is Gen. Mgr.

NORTH ADAMS, MASS.—The Boston & Albany R. R. Co. is arranging to construct an 8 or 10-stall roundhouse at North Adams. H. Bartlett, Boston, is Gen. Supt. of Mechanical Dept.

WOONSOCKET, R. I.—The Lawton Spinning Co. is having plans prepared for a 4-story brick addition to its plant in the privilege district. Estimated cost, $500,000.

BUFFALO, N. Y.—The Lehigh & Lake Erie R. R. Co. will erect a roundhouse of reinforced concrete construction at Tifft St., east of Hamburg Turnpike, Buffalo, N. Y. The cost of this structure is estimated at $36,750.

Plans have been filed by the Buffalo Smelting Works for a 1-story brick electrolytic refinery to be added to its copper smelting plant at the foot of Austin St. Estimated cost, $28,000. Maurice B. Patch, 1 Austin St., is Mgr.

The William Simon Brewing Co. will build a 4-story brick addition to its brewery, corner Emslie and Clinton Sts. Estimated cost, $30,000. A. F. Terney is Arch., Mutual Life Bldg., Buffalo.

FLUSHING, L. I., N. Y.—The New York & Queens County Ry. Co. announces that it has plans ready for putting up car barns and repair shops on land recently bought, fronting Jackson Ave. The cost of the proposed improvements will be about $250,000. F. L. Fuller, Long Island City, is Gen. Mgr.; Charles H. Boughart is Master Mechanic.

TRENTON, N. J.—W. J. & J. H. MORRIS have the contract for a factory for the Ajax Grieb Rubber Co. The building will have one and three stories, and will be constructed of brick and steel. The power-house will be 40 × 50 ft., warehouse, 60 × 140 ft., and office building, 60 × 120 ft. Cost, $200,000.

SHARON, PA.—Application has been made to the directors of the U. S. Steel Corporation for $2,500,000 for improvements at the Sharon and South Sharon plants. It is proposed to build a new blast furnace and ten open-hearth furnaces. The company will also install an engine at the blooming mill, to cost $125,000.

PHILADELPHIA, PA.—Sowney Bros., 1204 Frankford Ave., will erect a 4-story carriage factory building, at Frankford. Building will be brick, with slag roof, open plumbing, electric light fixtures, etc.

BALTIMORE, MD.—Baltimore Enamel & Novelty Co., foot of Allen St., is securing revised estimates on proposed addition to its plant. The structure will be 1-story, 64 × 122 ft. B. C. Sandlass is Engr.

The Joseph Schlitz Brewing Co., according to reports, has had plans prepared by Kirchhoff & Rose, 201 Grand Ave., Milwaukee, Wis., for three storage plants which it will erect as follows: At Baltimore, Md., of brick and steel, 125 × 155 ft., three stories high, and cost approximately $40,000; at Youngstown, Ohio, a $30,000 solid brick 90 × 155-ft. building; and at Richmond, Va., a $30,000 brick building, two stories high, 75 × 176 ft.

ALBEMARLE, N. C.—A second cotton mill is to be erected, according to reports, at Albemarle by the Eliot Mfg. Co., to cost $500,000, and electricity will be used, to be furnished by the Whitney Co. It is stated that the company will use $200,000 of its surplus for the new plant, and possibly a separate corporation will be formed to own and operate the mill.

COLUMBUS, GA.—The Perkins Hosiery Mills will add about 80 knitting machines to present equipment.

ATLANTA, GA.—H. A. Williams, Akron, Ohio, proposes to establish in the South the Herculean Motor Car Co. and plant for manufacturing automobiles. Location has not been chosen.

CHILDERSBURG, ALA.—Bids are asked until Sept. 14, by D. L. Lewis, at Sycamore, for the Coosa River Spinning Co., for erecting a cotton mill and a warehouse near Childersburg. Knox, Dixon & Burr are Archs., Talladega, Ala.

GADSDEN, ALA.—Alabama City, Gadsden & Attalla Ry. Co. will build additions to ice factory. Preliminary surveys are now being made, and it is reported that construction work will begin soon. It is planned to install an equipment of 600 vats of 400 pounds capacity each, which, with output of present factory, will produce about 100 tons daily. John D. Gaboury, Gadsden, is Mgr.

TUSCALOOSA, ALA.—The management of the Tuscaloosa Mills will rebuild the cotton manufacturing plant recently destroyed by fire at a loss of $300,000. The equipment was 20,000 spindles and 400 looms. Company is installing electric power and discarding steam power in its knitting mill.

PORTSMOUTH, OHIO.—The Norfolk & Western Ry. Co., it is said, has bought 75 acres of ground for extensions to its shops at this town. In the enlarged shops 4,000 men will be employed.

CLEVELAND, OHIO.—G. A. Mueller, Arch., Ferguson Bldg., Detroit, has prepared plans for a brewery plant for the Standard Brewing Co., Cleveland. Cost, $185,000.

FLINT, MICH.—The Michigan Motor Castings Co. is reported organized as a branch of the Detroit Stoker & Foundry Co. of Detroit, and will locate its plant in this city on Industrial Ave. and Dayton St. Plans are now being prepared for the plant. The main building will be of white sandstone brick, 75 × 300 ft.

ELKHART, IND.—The H. W. Gossard Co. has awarded a contract to P. T. LONGAEHER for the construction of a factory building. Estimated cost, $40,000.

HARTFORD CITY, IND.—Frank Fordney, Gen. Mgr. of Hartford City Ice & Cold Storage Co., announces that the plant recently destroyed by fire, at a loss of $30,000, will be rebuilt on another site.

RICHMOND, IND.—Libby, McNeil & Libby, of Chicago, may erect and equip a factory here.

SOUTH BEND, IND.—The Vincennes Novelty Mfg. Co. has decided to remove to this city and will receive bids for erection of a plating plant or factory.

CHICAGO, ILL.—Treat & Ahlschuler, Archs., 277 Dearborn St., have been retained to draw plans for a manufacturing plant for the Raymond Lead Co.. N. T. Morgan, Secy. and Treas., 59 Lake St. To be located at Lexington St. and Washtenaw Ave., and of brick, mill and steel construction. Cost, approximately $200,000.

Nimmons & Fellows, Archs., 204 Dearborn St., are preparing plans for a glucose and starch plant at Archer and Ashland Aves., for Stein, Hirsch & Co., 2957 Archer Ave. Plant to consist of six buildings. To be built of brick, mill construction, from one to four stories in height. Approximate cost, $700,000.

ROCK ISLAND, ILL.—The Rock Island Brewing Co., it is reported, has let the contract for erecting an addition to their building to HENRY W. HURST, of Rock Island. Estimated cost of improvements, $50,000.

CARBONDALE, ILL.—The Carbondale Milling Co., H. C. Curtis, Mgr., will receive bids for a 3-story flour mill and elevator, to cost $30,000.

CORLISS, WIS.—The Wisconsin Engine Co., Corliss, it is reported, will erect a pattern shop and a pattern storage shop at its plant at Corliss, after plans prepared by Kirchhoff & Rose, 201 Grand Ave., Milwaukee. Both buildings will be of concrete and brick and call for an expenditure of about $70,000. The pattern shop will be 40 × 160 ft. and the storage shop 220 × 140 ft.

MILWAUKEE, WIS.—The Milwaukee Molasses Feed Co., Abraham Salisbury, W. J. Armstrong Co. and the American Malting Co. will rebuild elevators and other buildings destroyed by fire Aug. 31, at a loss of $40,000.

Louis Lehle, Arch., 109 Randolph St., Chicago, Ill., has let the following contracts for an addition to the new mill and boiler-house, at Milwaukee, for the Schlitz Brewing Co.: Concrete work, R. S. BLOME CO., 79 Dearborn St., Chicago; plumbing, W. H. HALSEY, Milwaukee, Wis. The structure is to be six stories high, 74 × 150 ft., and built of concrete. Cost, $350,000.

LEHIGH, IOWA.—JOHNSON & NELSON, Red Lake Falls, Minn., have been awarded the contract at $150,000 for constructing a sewer pipe and tile factory at this place.

MINNEAPOLIS, MINN.—Kees & Colburn, Archs., have let general contract to J. L. ROBINSON for constructing a 2-story machine shop for the Flour City Ornamental Iron Works, at $20,000.

The Minneapolis Sand Lime Brick Co., 611 Globe Bldg., has awarded the contract to W. J. HALL, 425 14th Ave., S. E., Minneapolis, for a brick factory plant, at 3331 Third St., N. E. Estimated cost, $30,000.

BROOKFIELD, MO.—A. B. Groves, Arch., 314 North Fourth St., St. Louis, has awarded the contract to MURCH BROS., Odd Fellows' Bldg., St. Louis, for erecting a 3-story brick shoe factory building at Brookfield, for the Brown Shoe Co., 17th and Washington Sts., St. Louis. Estimated cost, $90,000.

ST. LOUIS, MO.—A. Gilbert & Sons Brass Foundry Co., 2024 Eugenia St., will erect factory buildings of steel construction, 75 × 180 ft. The cost of buildings and machinery will be $25,000. Charles P. Gilbert is Mgr.

William H. Gruen, Arch., Chemical Bldg., is preparing plans for a factory plant, consisting of ten buildings, for the Acme Tool & Truck Co., F. C. Koehler, Mgr. Cost, about $250,000.

The Continental Portland Cement Co., D. A. Marks, Pres., Benoist Bldg., is having plans prepared by W. A. Tyrrell, 620 Chestnut St., for erection of proposed Portland cement plant. The company will erect three buildings, 96 × 100 ft., 75 × 400 ft. and 96 × 234 ft., one and two stories, steel frame, sheet and structural iron work, with corrugated-iron roofing; electric lights. Cost of erection and equipment will be about $1,200,000.

DARDANELLE, ARK.—Dardanelle Hardwood Mfg. Co. will establish plant for the manufacture of hardwood lumber, with a capacity of 30,000 ft. An 80 × 100-ft. building will be erected. The cost of building will be $5,000; cost of machinery to be installed, $20,000. W. R. Perkins is Arch. Officers are D. Crownover, C. B. Cotton and F. H. Phillips.

ARGENTA (Little Rock post-office), ARK.—The Argenta Ice & Cold Storage Co., with a capital of $75,000, will erect an ice factory of 75 tons daily capacity. George White is Pres. and U. S. Goodwin is Mgr.

SAPULPA, IND. T.—J. C. Madden & Sons Co. will erect and equip the following buildings for a glass factory: Office, brick, 50 × 30 ft.; storehouse, frame, 38.5 × 150 ft.; box factory, frame, 50 × 150 ft.; warehouse, frame, 80 × 150 ft.; enameling plant, 80 × 100 ft., frame; main factory, corrugated, 80 × 125 ft. Cost of buildings will be $20,000; cost of machinery, $30,000. Plant will produce flint-glass bottles; daily capacity, 425 gross, assorted. Officers are: J. C. Madden, Sr., Pres.; William C. Schmidt, Vice-Pres.; J. C. Madden, Jr., Secy.-Treas.

WELLAND, ONT.—The Bemis Bros. Bag Co., 89 State St., Boston, Mass., will erect a factory near here, to cost $1,500,000. The company has been granted a fixed assessment of $20,000 by the township.

## MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

WHARF.—Berkeley, Cal.—Plans are being prepared for the Town Board of Trustees for a municipal wharf.

LEVEE.—Oroville, Cal.—Town has voted to issue bonds for the construction of a levee on the Feather River.

DREDGING.—San Francisco, Cal.—Bids are asked by Lieut.-Col. John Biddle, Corps Engrs., U. S. A., until noon, Sept. 26, for dredging in Petaluma Creek, Cal.

*DREDGING.—Saginaw, Mich.—Bids are asked until 10 a. m., Sept. 23, by the Board of Park and Cemetery Commissioners for dredging and excavating. David C. Bell, Clk.

CEMENT.—New York, N. Y.—Bids are asked until 3 p. m., Sept. 19, by the Department of Parks for furnishing and delivering 200 bbls. of Portland cement (No. 1, 1907).

BREAKWATER.—Petit Rocher, N. B.—Contract for the construction of an extension to the breakwater at Petit Rocher, N. B., has been awarded to SIMON McGREGOR, of Dalhousie, N. B.

*SUBWAY.—Reading, Pa.—Bids are asked until 2 p. m., Sept. 25, by Caleb Weidner, City Clerk, for construction of a subway under the P. & R. Ry. tracks at Spring St. Elmer H. Beard, City Engr.

TORPEDO WHARF.—San Francisco, Cal.—Bids are asked until 10 a. m., Sept. 28, by Capt. B. F. Cheatham, Const. Q. M., Fort Winfield Scott, San Francisco, for constructing a torpedo wharf at this post.

*EXCAVATION, ETC.—Riverton, Ala.—Bids are asked until 11 a. m., Oct. 12, by Maj. Wm. W. Harts, Corps Engrs., U. S. A., Chattanooga, Tenn., for excavation, riprap and paving at Colbert Shoals Canal, near Riverton.

DREDGING.—Boston, Mass.—Bids are asked until noon, Sept. 30, by Maj. Edward Burr, Corps Engrs., U. S. A., for dredging in Mystic River, Mass. Specifications are on file at office of Engineering News, New York.

LEVEE.—New Orleans, La.—Bids are asked until 11 a. m., Sept. 20, by Capt. J. F. McIndoe, Corps Engrs., U. S. A., for constructing the Burton to Louderbough levee, about 25,000 cu. yds., in the Lake Borgne Levee Dist.

METEOROLOGICAL INSTRUMENTS.—Washington, D. C.—Bids are asked by the Chief Signal Officer of the Army, War Dept., Washington, D. C., until Sept. 16, for furnishing a number of meteorological instruments.

*REPAIRING DIKES.—New York, N. Y.—Bids are asked until noon, Sept. 23, by Col. John G. D. Knight, Corps Engrs., U. S. A., New York, for furnishing rubble stone and quarry spalls for constructing and repairing dikes in Hudson River, N. Y.

STEAMBOAT.—New York, N. Y.—Bids are asked until 2.30 p. m., Sept. 23, by Robert W. Hebberd, Comr. Charities, for furnishing all the labor and materials necessary to build and turn over to the Department of Public Charities, in perfect working order, a steamboat.

CANAL.—Peterboro, Ont.—Contract has been awarded by Alex. J. Grant, Supt. Engr., Trent Canal, Peterboro, for the work connected with the construction of Sec. 5, Ontario-Rice Lake Division of the canal, to BROWN & AYLMER, of Peterboro. Cost, $600,000. Noted on Aug. 1.

CONDUITS.—Winnipeg, Man.—The city has decided to pay the provincial authorities $20,000 towards one duct in connection with the conduits of the provincial telephone system to be built in this city. F. E. Cambridge is City Electrician; Orrin B. French, Supt. Provincial Telephone Construction, Winnipeg.

STONE & GREEN, Minneapolis, Minn., have received the contract for telephone conduits at a minimum price of $83,000. It has not yet been decided how much conduit work will be done.

A sub-committee of the city council has recommended to the city council that the ratepayers be asked to vote on a by-law to raise $200,000 for the purpose of building conduits throughout the city and placing all overhead wires underground.

DREDGING.—Washington, D. C.—One bid was received on Sept. 7 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for dredging 20,000 cu. yds. of material from channel, Navy Yard, Washington, D. C.: John Miller, 702 Eleventh St., N. W., Washington, D. C., 35 cts. per cu. yd.; $8 per hour for logging.

*GARBAGE DISPOSAL.—Newark, N. J.—Bids are asked by the Board of Street and Water Commissioners until 3.30 p. m., Sept. 26, for collecting, removing and disposing of ashes, rubbish material, paper and garbage in the City of Newark for period of five years, beginning Jan. 1, 1908. Morris R. Sherrerd is Ch. Engr.

GRAND STAND.—New York, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Bd. of Education, until 11 a. m., Sept. 23, for general construction, etc., of a grand stand, to be placed on the Athletic Field at Monson and Orchard Sts. and the East River, Astoria, Long Island City, Boro. of Queens.

FORGINGS.—Washington, D. C.—Bids were received as follows Sept. 7 at the office of the Chief of Ordnance, War Dept., Washington, D. C., for 15 sets forgings for 3-in. rapid fire guns, model 1903: Midvale Steel Co., Philadelphia, Pa., 50 cts. per lb. rough material; Bethlehem Steel Co., South Bethlehem, Pa., same.

DIKE.—Boston, Mass.—Bids were received by the Board of Harbor and Land Commissioners, Room 131, State House, Boston, on Sept. 6 for building dike at Herring River, Wellfleet, Whitman & Howard, 220 Devonshire St., Boston, Engrs. Contract was awarded to J. H. GERRISH, Melrose Highlands, Mass., at $9,510.

*DREDGING.—Jacksonville, Fla.—Bids are asked by Maj. Lansing H. Beach, Corps Engrs., U. S. A., until noon, Oct. 9, for dredging at Forresters Point, St. Johns River, Fla.

Also, bids are asked until noon, Oct. 10, for dredging and rock removal in Withlacoochee River entrance, Fla.

*DREDGING.—Cerro Gordo, Ill.—Bids are asked until noon, Sept. 27, by the Drainage Commissioners of Union Drainage Dist., No. 3, towns of Cerro Gordo and Willow Branch, for the construction of eleven miles of open ditch, involving the moving of 210,410 cu. yds. of earth. W. J. Day, Engr., Bement, Ill. J. C. Locher, Clk.

SUBMARINE CABLES.—New York, N. Y.—Bids are asked by Frederick H. Schroeder, Pres. Bd. Comrs. of Quarantine, 62 William St., until noon, Sept. 20, for installing submarine telephone cables between Staten Island and Hoffman Island and between Hoffman Island and Swinburne Island, New York State Quarantine Stations, New York.

TELEPHONES, ETC.—New York, N. Y.—Bids are asked until 11 a. m., Sept. 17, by John V. Coggey, Comr. Dept. Correction, for furnishing all labor and material required for completing the inter-communicating telephones, fire alarm systems, drill bells, etc., in Pavilion No. 4, Hart's Island, New York, which work has been abandoned by David E. Kennedy.

SUBWAY EXITS.—Boston, Mass.—Bids were received as follows on Sept. 5 by the Boston Transit Commission for constructing entrances and exits at Sumner St. for the Washington St. tunnel, B. Leighton Beal, Secy.: Patrick McGovern, $14,106, completing it by Nov. 15; John E. Palmer, $13,958, Dec. 1; Charles R. Gow Co., $14,518; the Coughlin & Shields Co., $17,711.

DREDGING.—Washington, D. C.—One bid was received by R. C. Hollyday, Ch. Bureau Yards and Docks, Navy Yard, on Sept. 7 for dredging and removing about 20,000 cu. yds. of material from channel, navy yard, Washington: John Miller, 702 Eleventh St., N. W., Washington, D. C. (Item 1), 35 cts. per cu. yd.; (item 2) $8 per hour. Commence work in 60 days and complete in four months.

*PIER, DREDGING, ETC.—Milwaukee, Wis.—Bids were received as follows by Maj. W. V. Judson, Corps Engrs., U. S. A., on Sept. 3 for removing old pier, building pile pier, dredging, etc., at Two Rivers Harbor, Wis.: Greiling Bros., Green Bay, Wis., $64,965; August Rieboldt and Joseph Wolter, Sturgeon Bay, Wis., $43,680. Itemized bids will be found under Contract Prices in this issue.

FORGINGS.—Washington, D. C.—Bids were received as follows, Sept. 9, at the office of the Chief of Ordnance, War Dept., Washington, D. C., for furnishing four sets of forgings for 4.7-in. siege rifles, model 1903: Bethlehem Steel Co., South Bethlehem, Pa., Crucible Steel Co. of America, Pittsburg, and Midvale Steel Co., Philadelphia, each bid 40 cts. per lb. for gun steel forgings and 50 cts. per lb. for nickel steel forgings.

*DREDGING.—Norfolk, Va.—Bids were received Sept. 4 by Maj. Joseph E. Kuhn, Corps Engrs., U. S. A., for dredging harbor at Norfolk. The contract was awarded to the NORFOLK DREDGING CO. at 9.4 cts. a cu. yd. for dredging to be done between Campostella bridge and the Norfolk & Western bridge. For dredging on Berkley flats the bid was 21.5 cts. For removing the abutments of the old toll bridge, $1.75 per cu. yd. It is estimated that the total cost of the work will be $54,175.

BARGE CANAL.—Albany, N. Y.—The Canal Board has approved the plans and specifications presented by Frederick Skene, State Engr. and Surveyor, for Contract No. 20, Barge Canal. This work is for dredging a channel in the Mohawk River from Rexford Flats to Cranes Village, a distance of about 19 miles. The contract will cost approximately $1,000,000. The work will be advertised this fall by F. C. Stevens, Supt. Public Works.

PAINTING FERRYBOATS.—New York, N. Y.—Bids were received as follows by J. A. Bensel, Comr. of Docks, on Sept. 4 for Contract No. 1065: For furnishing all the labor and materials required for preparing for and painting the superstructure of the municipal ferryboats—James Shewan, Jr., foot Seventh St., East River, $14,450; Neptune B. Smyth, 1123 Broadway, $15,700; Wm. Flanagan, Jerome Ave. and 172d St., $11,105; John Widden, 511 West 21st St., $16,900.

*DREDGING.—Providence, R. I.—Bids were received as follows on Sept. 4 by Lieut.-Col. J. H. Willard, Corps Engrs., U. S. A., Newport, R. I., for dredging in Providence Harbor, R. I.: Maritime Dredging Co., New York, 12½ cts. a cu. yd.; Atlantic Dredging Co., New York, 8.7 cts.; Columbia Dredging Co., New York, 7.94 cts.; John A. Seeley, New York, 14 cts.; P. Sanford Ross, Jersey City, N. J., 8.9 cts.; J. S. Packard Dredging Co., Providence, R. I., 7.3 cts.

*RUBBLE STONE, DIKES.—New York, N. Y.—Bids were received on Sept. 2 by Col. John G. D. Knight, Corps Engrs., U. S. A., for furnishing rubble stone and quarry spalls for constructing and repairing dikes in Hudson River, N. Y., as follows: Bouker Contracting Co., 21 State St., New York, 2,000 cu. yds. rubble stone, $1.54 per cu. yd.; 10,000 cu. yds. quarry spalls, $1.50 per cu. yd. Wm. D. Fuller, New Baltimore, N. Y., $1.69 per cu. yd. on both items.

TELEPHONE SYSTEM.—Milwaukee, Wis.—The Wisconsin Telephone Co. will spend about $1,500,000 in the improvement of its system, particularly in the northern section of Michigan and in toll lines to the upper peninsula of Michigan. A conference held at Boston, and attended by President Alonzo Burt, has resulted in the decision to proceed with the project. The construction work will begin next spring, when a new toll line to northern Wisconsin and the copper country will be built. This line will connect Iron Mountain, Mich., with Rhinelander, Wis. About 300 miles of territory will be covered and about 1,600 miles of wire will be strung. Towns will be touched that now have no telephonic connections. Iron Mountain and Menominee range towns will have direct connections with Milwaukee and other Wisconsin cities, while Ashland, Washburn, Bayfield and Hurley and other Gogebic iron range cities will have an additional service. E. B. Cottrill, 183 Fifth St., Milwaukee, is Gen. Mgr.

BOILERS.—Washington, D. C.—Bids were received as follows on Sept. 3 at the office of the Light-House Board, Washington, D. C., for furnishing f. o. b. works boilers for the light-house tender "Pansy": New York Shipbuilding Co., Camden, N. J., (a) two Scotch marine boilers, 130 lbs. pressure per sq. in., 18 ft. 6 in. by 15 ft. 6 in., 180 lbs., $8,950. Harlan-Hollingsworth Corporation, Wilmington, Del., (a) $7,760; (b) $8,500. Newport News Shipbuilding & Dry Dock Co., Newport News, Va., (a) $8,200; (b) $9,200. Burleigh Dry Dock Co., Port Richmond, N. Y., (a) $7,860; (b) $8,950. Shooter Iron Shipyard Co., Mariner's Island, N. Y., (a) $7,500; (b) $10,000. Portland Co., Portland, Me., (a) $8,750; (b) $9,495. Bath Iron Works, Bath, Me., (a) $8,650; (b) $8,900.

WHARF, ETC.—San Diego, Cal.—The contract for constructing the naval coaling station here has been awarded to the PENNSYLVANIA BRIDGE CO., of Beaver Falls, Pa., for $239,400, the lowest bid. The work which the contract calls for consists of a wharf, trestle and bunkers. The wharf will be L-shaped, the approach being 502 ft. long and the L 350 ft. A steel trestle will be erected along both the approach and the L, and will be about 40 ft. above the deck and the wharf. The bunkers on the wharf, which are to be 330 ft. long, will be divided into eleven pockets, each of which holds about 275 tons of coal. List of bidders, etc., was given on Aug. 29.

SEAWALL.—New Orleans, La.—Bids were received on Aug. 30 by Capt. James F. McIndoe, Corps Engrs., U. S. A., New Orleans, for constructing interlocking steel pile seawall at Fort St. Philip. The only bid received by Col. E. H. Ruffner, Corps Engrs., U. S. A., New Orleans, on July 15 for constructing seawall at Fort St. Philip was submitted by Christie & Lowe, 107 Camp St., New Orleans, at $105,100. The bids received on Aug. 30 were: Weinlingen Steel Piling Co., of New York, $94,010; Cullen, Friested & Co., Chamber of Commerce Bldg., Chicago, three different bids, $99,955, $102,320 and $104,900; Richard M. Murphy, of New Orleans, $96,807; W. T. Carey & Bro., New Orleans, $99,300 and $99,850.

*SUCTION DREDGES.—New York, N. Y.—Bids were received as follows on Aug. 30, by Maj. J. C. Sanford, Corps Engrs., U. S. A., Witherspoon Bldg., Philadelphia, Pa., for constructing two steel twin-screw suction dredges for New York Harbor, N. Y.: (Item 1) construction of one dredge; (2) construction of two dredges:

Maryland Steel Co., Sparrow's Point, Md., (Item 1) $375,000, nine months and fifteen days; (2) $742,850, ten months and 25 days; delivered at Sparrow's Point, Md. (recommended for acceptance).

Fore River Shipbuilding Co., Quincy, Mass., (Item 1) $510,000, 13 months; (2) $738,000, 14 months; delivered at Quincy, Mass.

New York Shipbuilding Co., Camden, N. J., (Item 1) $415,000, twelve months; (2) $790,000, 14 months; delivered at Camden, N. J.

Newport News Shipbuilding & Dry Dock Co., New York, (Item 1) $420,000, twelve months; (2) $820,000, 14 months; delivered at Newport News, Va.

LEVEES.—New Orleans, La.—Bids were received on Aug. 27 by the State Board of Engineers and contracts awarded as follows for construction of levees: R. T. CLARK, enlargement of Raccourci levee in Point Coupee Parish, 50,000 cu. yds., at 23.50 cts. a cu. yd. Rattling Slough levee, in Caddo Parish, on the Red River, a new levee, 100,000 cu. yds. of earth, contract awarded to WM. HUNT, at 22.40 cts. Dortsch Bend, new levee on the Red River, in Bossier Parish, 250,000 cu. yds., contract awarded to W. G. BURT, at 24.40 cts.

Bids were received on Aug. 27 by the Orleans Levee Board for several levee contracts. ADAM RUPPEL, Leontine and Tchoupitoulas Sts., New Orleans, was the only bidder on the Third and Fourth Districts, and was awarded the contracts as follows: Third Dist.—41.5 cts. a cu. yd. where the earth is taken near the site, and where earth is secured elsewhere 94.5 cts.; creosoted revetment, $70 per 1,000 ft.; lumber, $60 per 1,000; piling in the revetment wall, per lin. ft., 70 cts.; reinforced concrete wall, $9 per cu. yd. Total cost, $89,000.

Fourth Dist.—97.5 cts. a cu. yd. for earth; $2.57 per cu. yd. concrete gravel; $9 per cu. yd., reinforced concrete; $60 per 1,000 ft., lumber; 70 cts. per lin. ft., piling. Total cost, $91,000.

In the case of the Sixth and Seventh Districts, taken as a single contract, M. Mitchell bid 74.5 cts. a cu. yd. for earth; the General Contracting Co., 43 cts.; Cothell & Almerico, 60 cts., and A. Ruppel, 48 cts. The contract was given to the GENERAL CONTRACTING CO. The estimated cost of this work, which is to be the banquetting of the levee, is $11,000.

The Board had ordered $100,000 work in the Fifth District, but contracts have not been called for yet. The estimates of the work do not take into account the land and other property, and the probable cost of that cannot yet be figured. Including the Fifth District, work amounting to $291,000 is on hand. Charles T. Yenni is Pres. and W. D. Eham is Engr. of the Board.

## U. S. POSSESSIONS AND CUBA.

*(* denotes that this work is advertised in Engineering News.)*

DUMP CARS.—Panama.—In pursuance of instructions received from the Isthmus, Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded contract for furnishing 500 12-yd. dump cars to the WILLIAM J. OLIVER MFG. CO., Knoxville, Tenn., at $1,125 each, total, $562,500, on condition that the bidder will make slight modifications without extra cost. The bids on 115 contractors' dump cars opened the same day were all rejected.

CEMENT.—Panama.—Bids were received as follows Sept. 3, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing 20,000 bbls. of Portland cement: Atlas Portland Cement Co., 30 Broad St., New York, $41,110. Motley, Green & Co., 66 Broad St., New York, $43,000. Southern Exporting Co., New Orleans, $37,200. Stauffer, Eshleman & Co., New Orleans, $43,000. Wouldham Cement Co., 32 Broadway, New York, $42,600; $44,600.

TUGBOAT.—Panama.—Bids were received as follows Sept. 3, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing one new or second-hand tugboat, length, 100 ft.; width, 25 ft.; draft, 9 ft.: A. H. Bull & Co., 10 Bridge St., New York, $42,000; Samuel Holmes, 66 Broad St., New York, $31,500, $32,500, $42,000, $50,000, $60,000; F. H. Weeks, 17 State St., New York, $63,000, $73,000, $79,000, $36,000, $42,000, $60,000, $55,000, $52,000, $30,000, delivered at Atlantic Coast ports.

ROOFING.—Panama.—Bids were received as follows Sept. 10, at the office of the Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing (a) 45,000 sheets corrugated galvanized iron roofing, and (b) 60,000 ft. galvanized-iron ridge roll: Motley, Green & Co., 66 Broad St., New York, foreign material, (a) $37,422; (b) $2,900; Stauffer, Eshelman & Co., Ltd., New Orleans, (a) $41,932.80; (b) $5,311; United States Steel Products Export Co., 24 State St., New York, (a) $44,234; (b) $6,063. Award recommended to Stauffer, Eshleman & Co.

LOCOMOTIVE CRANES.—Panama.—Bids were received as follows Sept. 3, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing (a) two locomotive coaling cranes, 10-ton capacity, and (b) two 20-ton capacity: Brown Hoisting Machinery Co., 26 Cortlandt St., New York, (a) $16,110, (b) $18,420; Industrial Works, Bay City, Mich., (a) $13,970, $18,150, (b) $18,750; Manning, Maxwell & Moore, 85 Liberty St., New York, (a) $15,531, (b) $21,721; Motley, Green & Co., 66 Broad St., New York, (a) $13,000, (b) $[illegible] son Bros. Co., Cumberland [illegible] William- and Arm- [illegible] Cleve- [illegible] Ohio. (a)

BRIDGE.—Panama.—Bids were received as follows on Aug. 28 at the office of the Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for one steel bridge to be delivered and erected by the Commissioner at Chagres River, Isthmus of Panama: Engineering Co., Citizens Bldg., Cincinnati, Ohio, $82,086; Apr. 1, 1908. Continental Bridge Co., 11 Broadway, New York, $73,[illegible] dent, $375 per month; two [illegible] each; 15 bridge erecters, $3 [illegible] all expenses paid by Commission. Hoffman & Co., Baltimore, [illegible] Sept. 1, 1908. Interstate Engineering Co., Bedford, Ohio, $85,847; April 1, 1908. Penn Bridge Co., Beaver Falls, Pa., dent, $350 per month; two [illegible] each; 15 bridge erecters, $1.25 per hour and all expenses. Receivers for Milliken Bros., 11 Broadway, New York, $73,[illegible] April 1, 1908. Penn Bridge Co., Beaver Falls, Pa., $59,000; April 1; New Orleans dock, $62,700. U. S. Steel Products Export Co., 24 State St., New York, $62,090; A[illegible]

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m. [illegible] at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for the following engineering supplies for the canal: One launch, 32 ft. long, 7-ft. beam; steel racks for steam shovels, tinner's machines and tools, spraying machines, hose, ranges, stovepipe, boards and linings, asbestos cement, wire, pole cross arms, glass insulators, machine bolts, rivets, cotters, nails, screws, tacks, wire gaskets, wire netting, steel copper Muntz metal, yellow metal, bridge reamers, wrenches, hammers, screw drivers, nail pullers, saw frames, vises, soldering coppers, riddles, hydraulic jacks, vacuum gages, speed indicators, ejectors, marine and foundry brushes, buckets, pulleys, door and window hardware, lanterns, ships's felt, oakum, graphite, Rathjen's composition, coal tar, glue, etc.

LUMBER.—Panama.—Bids were received as follows Sept. 3, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commision, Washington, for furnishing a quantity of lumber; (a) 2,120,000 ft. B. M. lumber; (b) 6,700,000 ft. B. M. lumber; (c) 15,000 pieces rough lumber; 63,000 ft. B. M. rough lumber; 350 pieces s. 4 s. lumber: A. S. Bacon & Sons, 2 Bay St., West, Savannah, Ga., (a) $53,000, (b) $170,850, (c) $27,948; 120 and 240 days. Bellingham Bay Lumber Co., San Francisco, Cal., (a) $51,152, (b) $164,890, (c) $28,394; 90 days shipment. Carter Lumber Co., Houston, Tex., (a) $65,525; 180 days. Continental Lumber & Tie Co., Houston, Tex., (a) $61,500, (b) $197,800, (c) $36,011; 180 days. Dixon Lumber Co., Savannah, Ga., (a) $56,840, (c) $20,788; 150 days. Wm. D. Gill & Sons, 701 President St., Baltimore, (a) $52,480, (b) $169,600, (c) $29,118; 180 days; if awarded all, $251,081. D. L. Gillespie & Co., 541 Wood St., Pittsburg, (a) $49,925, (b) $154,000, (c) $26,175; total, if awarded all, $225,775, on long-leaf yellow pine or Douglass fir. Kirby Lumber Co., Houston, Tex., (a) $58,627, (b) $181,475, (c) $34,615; 160 days. Long Bell Lumber Co., Kansas City, Mo., (a) $60,300, (b) $189,300, (c) $32,527; 90 days. Lutcher & Moore Lumber Co., Orange, Tex., (a) $58,790, (b) $180,400, (c) $31,272; 120 days. Sabine Lumber Co., Kansas City, Mo., (a) $59,295; commence 15 days. Shipman & Costello, Mobile, Ala., (a) $53,780, (c) $27,486. Chicago Lumber & Trading Co., St. Louis, Mo., (a) $53,647, (b) $169,632, (c) $30,196; 135 days. Eastern & Western Lumber Co., Portland, Ore., (a), (b) and (c) $13.50 per M. ft. delivered Portland; $23.50 per M. ft. delivered La Boca. J. K. Joice, Chicago, (a) and (b) $25 per M. ft. delivered La Boca, (a) $56,920, (b) $164,800, (c) $28,950, Colon delivery. Robt. R. Sizer & Co., Jacksonville, Fla., (a) $52,400, (b) $163,822, (c) $30,384; 120 days. H. McCormick Lumber Co., McCormick, Wash., (a) part, $28,800, (b) part, $71,300, (c) $27,008; 150 days. St. Paul & Tacoma Lumber Co., Tacoma, Wash., Tacoma delivery, (a) $58,500, (b) $129,250, (c) $18,470; 120 days.

LUMBER.—Panama.—Maj. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded the following contracts: For lumber: 100,000 ft. B. M. long leaf yellow pine cross ties to L. J. MERRIAN, Wilmington, N. C., at $89,333; 6,700 piles of various sizes to S. E. NAYLOR, Gulfport, Miss., at $59,287. Delivered at Colon.

## CONTRACT PRICES.

**[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]**

*PIER, DREDGING, ETC.—Milwaukee, Wis.—Bids were received as follows by Maj. W. V. Jusdon, Corps Engrs., U. S. A., on Sept. 3 for removing old pier, building pile pier, dredging, etc., at Two Rivers, Wis: (A) Grieling Bros., Green Bay, Wis; (B) August Rieboldt and Jos. Wolter, Sturgeon Bay, Wis.:

| | (A) | (B) |
|---|---|---|
| Removing 600 lin. ft. old pier, per lin. ft. | $21.00 | $12.00 |
| 12 600 lin. ft. round piles | .35 | .28 |
| Making 200,000 ft. B. M. sheet piles of plank to be furnished by U. S., and driving same | 20.00 | 12.00 |
| Framing 160,000 ft. B. M. timber, to be furnished by U. S. | 20.00 | 12.00 |
| 12,000 lbs. w.-i. or steel drift bolts | .06 | .06 |
| 41,250 lbs. w.-i. or steel screw bolts and tie-rods | .06 | .06 |
| 4,000 lbs. w.-i. and wire spikes | .06 | .06 |
| 7,000 tons of stone, per ton of 2,000 lbs. | 2.00 | 1.20 |
| Dredging 150,000 cu. yds. | .16 | .115 |
| Total | $64,965 | $43,680 |

## CIVIL SERVICE EXAMINATIONS.

LEVELER.—Albany, N. Y.—The following persons have passed the examination held by the New York State Civil Service Commission on Aug. 24, for the position of Leveler in the State Service:

Samuel W. Gage, Skaneateles, N. Y., c/o W. Fisher .....90.11
Leroy W. Clark, 101 Hoosick St., Troy, N. Y. .....88.07
John C. [illegible], 225 West 33d St., New York .....85.05
Raymond [illegible]kles, 635 Madison Ave., N. Y. .....81.76
Elizabeth [illegible]
Edward W. Babcock, 121 Morgan St., Buffalo, N. Y. .....81.28
Frank C. [illegible]lles, 560 Dean St., Brooklyn, N. Y. .....81.07
George D. Kellogg, 323 Utica St., Fulton, N. Y. .....80.32
Milton J. Adams, 6 Louise Park, Roxbury, Boston, Mass. .....79.35
Herbert C. Ellis, Center Moriches, N.Y. .....79.27
Carlton E. DeGraff, 237 Division St., Amsterdam, N. Y. .....76.04
John L. Sawyer, Chi Psi Lodge, Schenectady, N. Y. .....76.02
Charles Donohue, 237th St., Riverdale, N. Y. .....75.52

## TRADE PUBLICATIONS.

PATENTS AND TRADE MARKS.—O. Howlett Davis, 908 O St., N. W., Washington, D. C. Paper; 4½ × 7 ins.; pp. 64; illustrated.

This is the prospectus of a patent-attorney.

INVENTIONS.—Edward P. Thompson, M. E., 156 Fifth Ave., New York City. Paper; 4 × 9 ins.; pp. 14.

"Information for Patenting Inventions" is the title of this registered patent solicitor's hand-book.

WOOD PIPE.—National Wood Pipe Co., San Francisco, Cal. Paper; 3½ × 6 ins.; double folder; illustrated.

There are many instances where the use of a wooden pipe line is superior to any other form. This company manufactures a continuous stave pipe which is fully described in the present folder.

REINFORCED CONCRETE.—Trussed Concrete Steel Co., Detroit, Mich. Paper; 5¼ × 8 ins.; pp. 17; illustrated.

This is Part IV. in a series of pamphlets issued by this company, and treats exclusively of the hotels, residences and apartment houses and erected under the Kahn system of reinforced concrete.

SEWAGE DISPOSAL.—House-Sewage Disposal Co., 6515 Normal Ave., Chicago. Paper; 7 × 9½ ins. and 5½ × 7 ins.; pp. 4 (each); one illustrated.

These circulars relate to the Ashley sewage purification and disposal system for residences and institutions. Brief description given, with testimonials and list of users.

STEAM ENGINE SPECIALTIES.—The Standard Steam Specialty Co., 542 Broadway, New York City. Paper; 5 × 10 ins.; pp. 48; illustrated.

This pamphlet is a compilation of the dimension drawings and tables of this concern's line of exhaust mufflers, oil separators, pump governors, feed water heaters, etc.

GASOLINE CARS AND LOCOMOTIVES.—Fairbanks, Morse & Co., Chicago. Paper; 6 × 3 ins.; pp 12; illustrated.

This little pamphlet deals briefly with track inspection cars, section tool cars, small passenger cars and contractors' locomotives, all operated by Sheffield gasoline engines.

METALWORKING MACHINES.—Fox Machine Co., Grand Rapids, Mich. Paper; 6 × 9 ins.; pp. 4 to 16; illustrated.

Three pamphlets describe, respectively, a line of light milling machines, distinguished by an ingenious feed reversing arrangement; a power-driven pipe-cutter, and high-speed drill-presses of the "sensitive" pattern, both single and multiple.

LOCOMOTIVE CRANES.—The McMyln Manufacturing Co., Cleveland, O. Paper; 6 × 9 ins.; pp. 75; illustrated.

This company makes locomotive cranes, bridge conveyors, grab buckets, car dumpers and all other sorts of conveying and excavating machinery. This pamphlet is an especially well illustrated descriptive list of their product.

SURFACE FINISH CEMENT.—The Garden City Sand Co., Chicago, Ill. Paper; 4 × 9 ins.; pp. 40; illustrated.

"Stonekote," the patented mixture described in this pamphlet, is apure mixture of Portland cement and white sand or white quartz. It is used for a surface finish to buildings, on any kind of a backing, wood, stone, brick or metal.

CONCRETE PILE.—Simplex Concrete Piling Co., Tacony, Pa. Paper; 6 × 9 ins.; pp. 86; illustrated.

This concrete pile is filled into a steel cylindrical shell form which has been driven into the ground. The shell is drawn out before the concrete sets, leaving a solid concrete column filling the opening. This little book describes the system and illustrates many instances where it has been used.

STORAGE AND CONVEYING MACHINERY.—Dodge Coal Storage Co., Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 112; illustrated.

The title "Handling and Storing Coal and Ore" is made to cover a bewildering variety of types of storage plant and accessory machinery. These are arranged in the book in album fashion, with only a brief text note accompanying each picture.

ELECTRIC PYROMETERS.—William H. Bristol, 45 Vesey St., New York City. Catalog No. 17. Paper; 9 × 12 ins.; pp. 40; illustrated.

This catalog describes switchboard and portable forms of both indicating and recording pyrometers and thermo-electric couples for all kinds of pyrometry. The pamphlet also treats of the practical installation and operation of the apparatus described.

IRON MANUFACTURERS.—Bergen Point Iron Works, Bayonne, N. J. Paper; 6 × 9 ins.; pp. 49; illustrated.

This company makes a specialty of machinery for handling coal, sand, ore, broken stone, etc., and of patented cars and car dumpers, tubs and tub dumpers. They are prepared also to give engineering advice upon these subjects. The present catalog fully describes some of their newest devices along these lines.

SCRAPER-BUCKET EXCAVATOR.—Page & Schnable, Chicago, Ill. Catalog No. 1. Paper; 9½ × 6 ins.; pp. 37; illustrated.

This excavation consists of an open-mouthed scraper bucket hung from the extended boom of a movable derrick and rigged horizontally to the drum of the hoisting engine on the derrick. This horizontal rig pulls the bucket to the derrick, thus covering all the ground between the boom-end and the machine.

STEEL SHEET PILING.—National Interlocking Steel Sheeting Co., 72 W. Washington St., Chicago. Paper; 4 × 9 ins.; pp. 12; illustrated.

This catalog describes a lock or clamp for connecting steel piles so that ordinary rolled channels can be interlocked to form sheet piling without the use of bolts or rivets. The locks are of cast steel, and those for the bottom of the piles have sharp driving edges.

STORAGE BATTERIES FOR STATIONARY USE.—The Westinghouse Machine Co., E. Pittsburg, Pa. Catalog S-2, No. 7008; paper; 6 × 9 ins.; pp. 40; illustrated.

This catalog gives descriptions, cuts and prices of the company's complete line of batteries; also curves showing results of battery installation upon generator loads. A line of storage-battery industrial-railway trucks is also described.

PAINTS FOR RAILROAD USE.—The Arlington Mfg. Co., Canton, O. Paper; 3⅞ × 8½ ins.; pp. 8.

Several of the products of this company are treated in this booklet: Carbonelastic Coating, "Quickdry" freight car paint, "Quickdry" steel car coating, "Satin White" (for stenciling), Arlington galvanized-iron paint, Arlington red lead preservate, "Carbolac" preservative, and others.

IMPROVING MACADAMIZED ROADS.—Barrett Mfg. Co., New York and Chicago. Paper; 4 × 9 ins.; pp. 16; illustrated.

The use of the company's "Tarvia" for laying dust and improving the road service on boulevards in Chicago is here described, from information furnished by Mr. Linn White, Engineer of the South Park Commissioners. Particulars of cost are given.

RAILWAY SNOW-PLOWS. — The Wilder Snow-Plow & Mfg. Co., Worcester, Mass. Paper; 5¾ × 3¼ ins.; pp. 16; illustrated.

The Wilder radial snow-plow is especially designed for work on sharp curves and sudden changes of grade on electric roads. The plow-noses are mounted on the trucks, thereby following the direction of the rails. The company also makes a plow adapted to either electric or steam roads.

MINING HOISTS.—The Sullivan Machinery Co., Ry. Exchange, Chicago, Ill. Bulletin No. 56; paper; 6 × 9 ins.; pp. 24; illustrated.

This bulletin is a broad description of the Sullivan line of hoists, primarily developed along lines imposed by deep-mine conditions in the Lake Superior district, and supplementary illustrations of notable existing installations of sundry types. A blank list of questions for intending purchasers is appended.

STERILIZATION OF WATER BY OZONE.—De Frise's System (38 Rue du Louvre, Paris, France). Paper; 8½ × 11 ins.; pp. 28; illustrated.

Besides the descriptive matter relating to the de Frise system of ozone production, this pamphlet contains quotations from various sources designed to show the inadequacy of relying upon filtration alone for the removal of pathogenic germs from water. Various other quotations are given bearing upon water sterilization; also, extracts from reports on tests of the de Frise system, made during the last few years at St. Maur, in or near Paris. Three different sterilizers of the ozone type have been tested at St. Maur. The catalog states that in the de Frise system any of the various commercial ozonizers may be used.

ELECTRIC CRANE CONTROLLERS.—The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Paper; 4 × 8 ins.; pp. 24; illustrated.

This is a descriptive catalog and price-list of crane and hoist controllers of 1 to 100 HP., and for circuits of 110 to 500 volts. They include both direct-current and alternating-current apparatus. The various parts and the details of construction are illustrated, and the special features and advantages are fully described.

TAR COATING FOR ROADS.—Barrett Manufacturing Co., New York. Paper; 9 × 6 ins.; pp. 24; illustrated.

The coal tar product, patented under the name of Tarvia, is used as a surface coating to make a better wearing body for roads but primarily to lay the dust which the increasing automobile traffic is making so prevalent. This pamphlet consists principally of photographs illustrating the various roads throughout this country on which Tarvia has been used with great success.

ROCK DRILLS.—Sullivan Machinery Co., Chicago, Ill. Paper; 6 × 9 ins.; pp. 16; illustrated.

The drills described are of two classes; one has a differential piston-valve, and the other has a flat D-valve operated by a tappet whose ends ride on the plunger of the air cylinder. Prices and weights are given. The illustrations include sectional views of the drills, and half-tone engravings, showing them in use on the Panama Canal in mines and in the Gunnison irrigation tunnel.

DUMP WAGON.—Austin Mfg. Co., Chicago, Ill. Paper; 10 × 7 ins.; pp. 20; illustrated.

This wagon is of the drop-bottom type, with doors so arranged as to swing entirely clear of the opening. It is made with steel and wooden axles, and has a capacity of about 2 cu. yds., but for municipal use there is a special design of 2½ cu. yds. capacity. Some of the illustrations show these wagons in use in connection with New Era graders on railway grading work.

PNEUMATIC TOOLS.—Independent Pneumatic Tool Co., First National Bank Building, Chicago. Cloth; 6 × 9¼ ins.; pp. 30; illustrated.

This is a descriptive catalogue of the "Thor" tools and appliances. The tools include various designs of drills, calking and riveting hammers, tube rollers or expanders, circular saws, etc. The appliances include rivet forges, hose couplings, air compressors, etc. Illustrated detail lists of parts are given, and a number of illustrations show the tools in use on work of various kinds.

POWER PLANT ECONOMY.—The Bristol Co., Waterbury, Conn. Paper; 6 × 6½ ins.; pp. 8; illustrated.

This pamphlet is a short treatise by H. P. Dennis, M. E., on the use of automatic recording instruments for flue gas, boiler feed-water, superheaters, condensers and hot wells. It is shown herein how a continuous check on the proper operation of the boiler room apparatus may be obtained with a resultant opportunity of increasing the efficiency of operation.

STEAM PUMPS.—A. S. Cameron Steam Pump Works, Foot East 23d St., New York City. Paper; 5 × 7½ ins.; pp. 32; illustrated.

A group of good illustrations of work on the Pennsylvania R. R. and Hudson tunnels at New York City, including also a picture of the first design for the Hell Gate bridge, together with some test matter, give opportunity for referring to the fact that Cameron pumps were adopted in these tunnels for all drainage work. This is featured as a testimonial to the quality and reliability of the Cameron pumps.

SIGNAL LAMPS AND LANTERNS.—The Adams & Westlake Co., Chicago. Cloth; 6 × 9¼ ins.; pp. 199; illustrated.

This is an illustrated catalog of marker lamps for trains, switch and signal lamps, bridge lamps, trainmen's lanterns, and a variety of other lamps and appliances. The various forms are illustrated by half-tone engravings, with the lenses appropriately colored, and there are brief descriptions of the special features. Among the specialties are the double-light single-lamp distant signals as used on the Chicago & Northwestern Ry., and several forms of train-order signals controlled from the operators' desk. Practically all the lamps are on the down-draft system. Several pages are devoted to diagrams of train markers and the train signal rules of the American Railway Association. A defect in the book is the unnecessary padding by pages that are entirely blank or have simply a classified title.

ELECTRIC FURNACES.—American Electric Furnace Co., 45 Wall St., New York City. Paper; 7½ × 10 ins.; pp. 12; illustrated.

This company has taken over all the business of the American Grondal-Kjellin Co., of New York City, and of the Induction Furnace Co., of Newark, N. J., and has acquired the American rights on electric induction plants taken out by Mr. F. A. Kjellin and Mr. E. A. Colby. This pamphlet describes the principles and operations of the Kjellin and Colby steel furnaces and gives very little operation data.

WATERPROOFING COMPOUND FOR FABRICS, ETC.—The Flexible Compound Co., 3907 Haverford Ave., Philadelphia. Four folders; paper; 3½ × 6 ins.; pp. 6 and 8.

These folders describe "Flexible Compound," a waterproof liquid for protective purposes, from the standpoint of general use, architectural and building work, electrical work, and metal manufacturing work. The compound is very adaptable, and from demonstrations seen at a recent railway convention we should think it of merit sufficient to warrant investigation and trial by those interested.

CONCRETE MIXERS.—The Hains Concrete Mixer Co., Washington, D. C. Paper; 9 × 6 ins.; pp. 35; illustrated.

This mixer consists of four funnel-shaped hoppers, placed one above the other. The materials are placed in the top and are carried by gravity through each hopper to emerge from the bottom as a mixed concrete. This pamphlet completely describes the theory and action of the mixer and gives many photographs of its use on various pieces of work, principally upon the new Connecticut Ave. Bridge at Washington, the largest concrete bridge in the world.

TARLESS GAS PRODUCER.—The International Gas Power Co., Hughes Bldg., St. Joseph, Mo. Paper; 6 × 9 ins.; pp. 4; illustrated.

This circular shows the general design of a bituminous coal gas producer of a tarless type, the predominating feature of which is the employment of re-entering conduits at points where the fuel is at incandescence. A steam jet discharging into these re-entering conduits causes a down-draft which is claimed to deliver the tarry vapor to a point where the vapor distillations are conevrted to fixed gases.

WOODWORKING MACHINERY.—Fox Machine Co., Grand Rapids, Mich. Paper, 6 × 9 ins.; pp. 4 to 24; illustrated.

In a number of separate pamphlets, the Fox Machine Co. describes its well-known trimmers, whose production in fact was the starting-point of their business; mitering trimmers, which are a special development of the ordinary trimmer for cutting miters out of a stick by means of two knives whose planes make a right angle with each other; saw dado heads; and a Corebox Machine, a new development, which was exhibited, together with various straight and elbow coreboxes made by it, at the recent Master Car Builders' convention at Atlantic City.

CONCRETE PILES.—Simplex Concrete Piling Co., Tacony, Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 86; illustrated.

The Simplex method of construction consists in driving a hollow pile or shell with a solid cap; the cap is then opened and the concrete filled into the hole while the shell is gradually withdrawn. In soft or wet ground a permanent metal shell can be inserted in the hollow pile to hold the concrete while it sets. Still another method is to insert a ready-made concrete pile in the hole formed by the driving shell, pouring grout around it as the shell is withdrawn. Various modifications are suggested, and there are a number of photographs illustrating the processes and various structures built on Simplex pile foundations. Several testimonials are also given.

LOCOMOTIVES.—American Locomotive Co., 111 Broadway, New York, N. Y. Paper; 9 × 6 ins.; pp. 60; illustrated.

This pamphlet is devoted entirely to engines of the eight-wheel or 4-4-0 type for passenger service. The 25 engines described range from 68,000 lbs. to 161,000 lbs. in total weight, with 47,000 lbs. to 111,000 lbs. on the driving wheels. The cylinder sizes range from 14 × 24 ins. in some engines for Japan to 20 × 26 ins. in a large number of engines. The driving wheel diameters range from 54 ins. to 80 ins., the last being for 136,000-lb. engines with cylinders 19 × 26 ins. on the Chicago & Northwestern Ry. Some of the engines have the Wotten firebox.

TURNTABLES.—Philadelphia Turntable Co., Real Estate Trust Building, Philadelphia, Pa. Leather; 6¾ × — ins.; pp. 64; illustrated.

The turntables built by this company under the Saylor patents are of the center-bearing type, with both deck and half-through girders. They are made in lengths up to 90 ft. and for loads of over 200 tons. The design and details of construction are described, and there are particulars of the pits, latches, end-bearing wheels, etc. Small turntables of 10 to 25-ft. diameter for shops, freight yards, cranes, etc., are also described, as well as turntables for swing bridges.

FLEXIBLE CONDUIT.—Sprague Electric Co., 527 West 34th St., New York City. Paper; 3 × 5½ ins.; pp. 44; illustrated.

This pocket edition of Instruction Book No. 425 gives directions for opening a coil of conduit and for cutting, coupling and placing. There are suggestions for the use of flexible armored conductors in finished and in new buildings. The common forms of outlet and switch boxes for Sprague conduit are described and their dimensions are given.

Tables of carrying capacities of wires, of physical properties of common substances, and for metric conversion, etc., are appended.

SCRAPER BUCKET EXCAVATOR.—Page & Shnable, 1002 Security Building, Chicago, Ill. Paper; 9¼ × 6 ins.; pp. 37; illustrated.

The bucket is handled by lines from the boom of a traveling derrick, giving a greater reach than a steam shovel. It can be used in wet or dry excavation and in loose rock as well as in soft material. The illustrations show its application on a number of construction works, including railway grading, drainage ditches, the New York barge canal and the Chicago drainage canal extension. Some of the derricks are of steel construction.

GAS PRODUCERS.—The Westinghouse Machine Co., East Pittsburg, Pa. Paper; 6 × 9 ins.; pp. 8; illustrated.

This circular calls the attention of power users to some development of its apparatus for the production of power gas. The Type "F" producer, which is herein described, consists of a pair of vertical steel shells. One, the gas generator proper, is lined with brick and tile. The other is a combined scrubber and dryer from which the gas is taken for the engines or heaters without passing into any storage tanks. Some general matter on operation, attendance and regulation is included.

"FEED-WATER FILTRATION." — James Beggs & Co., 109 Liberty St., New York. Paper; 6 × 9 ins.; pp. 16; illustrated.

This pamphlet is descriptive of the Blackburn-Smith feed-water filter and grease extractor. The filter is for removing finely divided matter held in suspension, and also precipitated chemically combined elements after treatment of the water by heaters and purifiers—which rely on settling for clearing the water. The grease extracting properties of the device made it valuable where condensers are used, as it eliminates oil from cylinders, rods, valves, valve-stems, etc., from the condensed steam.

TOOLS AND TOOL HOLDERS.—Armstrong Bros. Tool Co., 104 N. Francisco Ave., Chicago, Ill. Paper; 3½ × 6 ins.; pp. 80; illustrated.

This pamphlet relates mainly to lathe and planer tools using inserted cutters of self-hardening steel. The economy of this system in the saving of forging, tempering, grinding, waste material, etc., is set forth, and a variety of tools are illustrated. Tool grinders and machine-tool appliances are also included. Prices are given and there is a long list of railways in which the company's tools are used.

LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Paper; 9 × 6 ins.; pp. 30; illustrated.

This pamphlet (No. 62 of the firm's "Bulletins") is devoted to balanced-compound locomotives. It includes a general description of the system, with line drawings and a number of half-tone engravings of engines of this type. These engines include not only those of American railways, but some for Brazil, Italy, France and Corea. All these foreign engines are of the ten-wheel (2-6-0) type, and those for the Paris & Orleans Ry. were built to metric dimensions, following the standard drawings of that road.

INCANDESCENT GAS LIGHTING APPARATUS.—Welsbach Co., Gloucester, N. J. Bulletin No. 10. Paper; 8 × 9½ ins.; pp. 20; illustrated.

Practically all the metal goods used by the Welsbach Co. are made by the Scoville Manufacturing Co., of Waterbury, Conn., whose department for the manufacture of such fixtures is described in this bulletin. This pamphlet is not intended as a complete article on this concern's plant or processes, as this single department is but a small part of the entire works. What is given is a profusely illustrated outline of the processes through which a Welsbach burner passes in course of manufacture.

THERMIT WELDING PROCESSES.—Goldschmidt Thermit Co., 90 West St., New York City. Two Bulletins. Paper; pp. 24; illustrated.

One of these bulletins describes firebrick molds for welding locomotive frames by the thermit process. The success attained in such work led this concern to overcome troublesome details which were often the cause of vexatious delay. This has been done by the development of fire brick moulds. Appliances and tools for all such repairs are listed, together with the amounts of "thermit" and steel punchings for various sizes of repairs.

The second bulletin treats butt-welding of wrought iron and steel pipes and rods by this process. The actual operations are outlined and the necessary equipment described. It is stated that the process is not applicable for tubes of more than 6-in. diameter.

## ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.25 to 2.45 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $31 to $33; old iron rails, f. o. b. New York, $22 to $22.50; old steel rails, long lengths, $14 to $15; old steel rails, re-rolling lengths, $16.50 to $17.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 20 to 45 lbs., $32; 16-lb., $33; 12-lb., $34 at mill.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.86 cts.; over 15-in., 1.86 cts.; angles 3 × 2 and up to 6 × 6, 1.86 cts.; zees, 3-in. and larger, 1.90 cts.; tees, 3-in. and larger, 1.90 cts.; steel bars, half extras, 1.76 cts.

PLATES AND SHEETS—
New York—at tidewater—The following prices are based on carload lots, with 5 cts. extra for less than carload lots. Terms, net cash in 30 days:

| | |
|---|---|
| Tank plates, 6¼ to 14 ins. wide | $1.86 to $1.96 |
| 14½ to 100 ins. wide | 1.96 to 2.00 |
| Flange and boiler test | 1.96 to 2.06 |
| Marine | 2.26 to 2.36 |
| Locomotive, firebox | 2.75 to 3.50 |
| Still bottoms | 2.14 to 2.29½ |

Note—Plates more than 100 ins. in width, 5 cts. extra per 100 lbs.; plates 3-16-in. in thickness, $2 extra; Nos. 7 and 8 gage, $3 extra; No. 9, $5 extra.
Pittsburg—Tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—
Pig Iron:
At New York—tidewater—

| | |
|---|---|
| Northern— | |
| No. 1 X foundry | $22.50 to $23.00 |
| No. 2 X foundry | 22.00 to 22.50 |
| No. 2 plain | 21.50 to 22.00 |
| Gray forge | 21.00 to 21.50 |
| Basic | 20.00 to 21.00 |
| Virginia— | |
| No. 1 foundry | 24.25 to 24.75 |
| No. 2 foundry | 24.00 to 24.25 |
| Basic | 21.00 to 22.00 |
| Southern— | |
| No. 1 foundry | 24.25 to 24.75 |
| No. 2 foundry | 23.75 to 24.25 |
| No. 3 foundry | 23.25 to 23.75 |
| No. 4 foundry | 22.75 to 23.25 |
| No. 1 soft | 22.25 to 22.75 |
| No. 2 soft | 21.75 to 22.25 |
| Gray forge | 21.25 to 21.75 |
| Mottled | 21.75 to 22.25 |
| At Pittsburg, f. o. b. cars— | |
| No. 2 foundry | $22.50 to $23.00 |
| Gray forge | 21.50 to 22.00 |
| Bessemer iron | 22.00 to 22.50 |
| Ferromangenese | 56.00 to 60.00 |
| Muck bars | 37.50 to 38.00 |
| Iron bars | 11.75 |
| Cut nails | 3.85 |
| At Chicago— | |
| Lake Superior Charcoal | $27.50 to $28.00 |
| Northern Coke Foundry, No. 1 | 25.00 to 25.50 |
| Northern Coke Foundry, No. 2 | 24.50 to 25.00 |
| Northern Coke Foundry, No. 3 | 23.50 to 24.00 |
| Northern Scotch, No. 1 | 25.50 to 26.00 |
| Ohio Strong Softeners, No. 1 | 25.50 to 26.00 |
| Ohio Strong Softeners, No. 2 | 25.00 to 25.50 |
| Southern Coke, No. 1 | 24.35 to 24.85 |
| Southern Coke, No. 2 | 23.85 to 24.35 |
| Southern Coke, No. 3 | 23.35 to 23.85 |
| Southern Coke, No. 4 | 22.85 to 23.35 |
| Southern Coke, No. 1 Soft | 24.85 to 25.35 |
| Southern Coke, No. 2 Soft | 24.35 to 24.85 |
| Southern Gray Forge | 20.85 to 21.35 |
| Southern Mottled | 20.85 to 21.35 |
| Malleable Bessemer | 24.40 to 24.90 |
| Standard Bessemer | 24.90 to 25.40 |
| Jackson Co. and Kentucky Silvery, 6% | 31.40 to 31.90 |
| Jackson Co. and Kentucky Silvery, 8% | 32.40 to 32.90 |
| Jackson Co. and Kentucky Silvery, 10% | 33.40 to 33.90 |

Cast-iron Pipe:
New York—Carload lots, net tons, 6-in., at tidewater, $34.50 to $35.
Chicago—4-in. water pipe, $37 to $38; 6-in. to 12-in., $36 to $37; over 12-in., $35 to $36, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Venture and other California asphalts, $20 to $23 per ton at New York; Trinidad refined, $22 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $35.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 18 to 18.50 cts.; electrolytic, 17.50 to 18 cts.; casting, 17 to 17.50 cts.
Lead:
New York, spot, 5.05 to 5.15 cts.
Spelter:
New York, spot, 5.45 to 5.55 cts.
Tin:
New York, spot, 36 to 36.25 cts.
Tar:
New York, $5.85 to $6 per bbl.
Pitch:
New York, $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 × 9 ins. x 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts.; 7 × 8 ins. × 8½ ft., 74 to 75 cts., 7 × 9 ins. × 8½ ft., 79 to 80 cts.

**For other Proposal Advertisements see pages 53, 56, 57, 58, 59, 60, 61, 62 of Advertisements and Construction News page 52.**

## PAVING.

Weehawken, N. J.

Public notice is hereby given that the Township Committee of the Township of Weehawken, in the County of Hudson, will receive proposals or bids for the regulating and paving, on a Telford macadam and concrete foundation, the roadway of the Clifton Road, from the easterly terminal, near the West Shore ferry, to the Hudson Boulevard, east; together with all the work incidental thereto, in accordance with the plans and specifications for said work, made by Geo. W. Bond, Jr., C. E., now on file in the office of the Clerk of the Township.

Said proposals will be received at a meeting to be held by the said Township Committee of the Township of Weehawken, at the Township Hall, on Bullsferry Branch Road, near the Shippen street steps, on Monday, September 16, 1907, at the hour of 8 p. m.

Details concerning the work to be done, the manner in which bids will be received, and all other matters pertaining thereto may be had on application to the Township Clerk, or at the office of Geo. W. Bond, Jr., C. E., 148 Bullsferry Road.

The Township Committee reserves the right to reject any and all bids if deemed in the interest of the Township so to do.

THOMAS CARROLL,
11-1t Township Clerk.

PROPOSALS FOR HOSPITAL.—Office Constructing Quartermaster, Prescott, Ariz., Sept. 12, 1907.—Sealed proposals for construction, plumbing, hot water heating and electric wiring, hospital at Whipple Barracks, Ariz., will be received here until 10 A. M., Oct. 12, 1907, and then opened. Information furnished in offices of Chief Quartermaster, Denver, Colo.; Recruiting Officer, Los Angeles, Cal., and here. CHAS. C. WALCUTT, JR., Capt. and A. Q. M. 11-4t

## PAVING.

Weehawken, N. J.

Public notice is hereby given that the Township Committee of the Township of Weehawken, in the County of Hudson, will receive proposals or bids for the regulating and paving (brick pavement), on a concrete foundation, the roadway of Gregory avenue, from the northerly line of Washington street to the southerly line of the Bergen Turnpike together with all the work incidental thereto, in accordance with the plans and specifications for said work made by Geo. W. Bond, Jr., C. E., now on file in the office of the clerk of the Township.

Said proposals will be received at a meeting to be held by the said Township Committee of the Township of Weehawken, at the Township Hall, on Bullsferry Branch Road, near the Shippen street steps, on Monday, September 16, 1907, at the hour of 8 p. m.

Details concerning the work to be done, the manner in which bids will be received, and all other matters pertaining thereto may be had on application to the Township Clerk, or at the office of Geo. W. Bond, Jr., C. E., 148 Bullsferry Road.

The Township Committee reserves the right to reject any and all bids if deemed in the interest of the Township so to do.

THOMAS CARROLL,
11-1t Township Clerk.

## GARBAGE DISP[OSAL].

Newark, N. J., S[ept.] 10, 1907.

Sealed proposals will be rece[ived] at this office from 3:15 to 3:30 p. m. [on] Thursday, the twenty-sixth day of Septe[mber], 1907, and opened at the last named ho[ur] at a public meeting of the Board to be he[ld] at said time and place, for the collection, removal and disposal of ashes, rubbish [and] paper and garbage in the City of New[ark] for a period of five years beginning Ja[n.] 1, 1908, in accordance with the specifi[cations] which may be procured upon applica[tion] at the office of the Chief Engineer of t[he] Board, City Hall, Newark, N. J. Said spe[ci]fications provide for the disposal of garbage [by] reduction, cremation or incineration; the [con]tractor to have until the first of May, [1908] to erect plant for this purpose, or is [at] liberty to make arrangements with the [city] any now receiving and treating the ga[rbage] of the city by reduction process. Th[e city] is divided into two districts and [the] specifications provide for the number of [loads] to be made per week in each dist[rict].

Bid will be a price for the fi[rst] year and also the amount which is to [be] added annually thereafter for each of [the] succeeding years, and the total for th[e] years covered by the contract is to be use[d] in comparing the bids. Each bidder may [also] state in his bid what decrease in price fo[r] each year will be made in the contract if [a] satisfactory arrangements for collecting [ashes] and transportation in approved form[s] of trolley cars between midnight and 5 a. m. can be made with the street railway service.

Each bid is to be accompanied by the agreement of a surety company authorized to do business in New Jersey that the bidder will enter into contract, if awarded to him, and will execute surety company bond for $25,000 for the faithful performance of the contract.

By direction of the Board of Street and Water Commissioners of the City of Newark, N. J.

MORRIS R. SHERRERD,
11-1t Chief Engineer.

## MACADAM ROAD.

Durham Co., N. C.

Sealed proposals will be received by the Board of County Commissioners of Durham County, N. C., at the office of the Clerk, Durham, N. C., until 3.30 P. M., Oct. 1st, 1907, for building about 11½ miles of macadam road.

Approximate quantities:
60,000 sq. yds. 6-inch macadam.
75,000 cu. yds. excavation.
Together with the necessary pipe and reinforced concrete drains.

Plans and specifications will be on file at the office of the Clerk, and copies of specifications, proposals, etc., may be had from the Engineer.

A. D. MARKHAM, Chm.
M. G. MARKHAM, Clerk.

Engineer:
GILBERT C. WHITE,
Durham, N. C. 11-3t


## Miscellaneous Wants

WANTED—Partner in steam shovel plant, nearly new, working every day. Large contract and plenty more ahead. Address "O. B. 11," Engineering News, New York, for further information. 11-2t

## FOR SALE

FOR SALE

### CONCRETE MIXERS

Several new and second-hand mixers of different makes for immediate delivery, New England States. Also contractors' equipment. Address "E. A. 9," Engineering News, New York. 11-1t

FOR SALE

### ROCK DRILLING PLANT

3 No. 5 Murphy Drills with steels, tripods and weights, hose and about 2,000 feet iron pipe. Pipe vise, forge, anvil and tool box.

Complete outfit..... $550.00

In Fine Conditon.

About 10,000 feet 1" Pipe, 150 feet 5", and 300 feet 2½".

About 8 tons Light Relay Rail, 12 to 16-lb.

Bargains in Concrete Mixers, Hoisting Engines, Boilers, Pumps, etc., etc.

Send us your inquiries.

THE NEW YORK PURCHASING AGENCY, Inc.
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